

FEDERAL ITEM IDENTIFICATION GUIDE

HOSE, PIPE, AND TUBE SPECIALTIES

This Reprint replaces FIIG T359, dated October 6, 2006.



Commander

Defense Logistics Information Service

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This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

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c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode Code</u>	<u>Requirement</u>	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
BOTTLE, DRAIN, AIRCRAFT PITOT STATIC	67976	HA
Container specifically designed for collection of moisture in aircraft pitot/static systems. Excludes SEPARATOR, PIPELINE and TRAP, MOISTURE.		
BOWL, SEDIMENT	33328	GA
A removable concave vessel designed as a component part of a carburetor, cam-actuated fuel pump, sediment strainer, water separator, and the like for collecting the sediment from a fluid. The item may have a pressure relief valve, drain plug, or drain valve. Excludes: Bowl (as modified); FILTER BODY, FLUID and STRAINER BODY, SEDIMENT.		
CHUCK, AIR, INFLATING	13593	NA
An air hose fitting with a check valve, designed for adapting the discharge end of the hose to the mouth of the valve stems on inner tubes, pneumatic bag, tanks, and the like.		
ESCUTCHEON, PIPE-TUBE	11440	JA
A shield, usually circular in shape, having a centrally located hole. It is designed to conceal the excess portion of a wall, ceiling or floor opening around a pipe or tube or a pipe or tube fitting such as a shower bath valve. The item is never threaded. Excludes FLANGE, FAUCET.		
MANIFOLD ASSEMBLY, OXYGEN MASK CONTROL	47922	MB
A device designed to distribute oxygen between components. It consists of a manifold and may have one or more connector, filter, hose and the like.		
MANIFOLD, AIR LINE	17643	MA
An item having threaded inlet(s) and two or more threaded outlets used for air distribution. Excludes valves, restrictors, filters and like devices. Excludes AUTOMOTIVE AIR BRAKE MANIFOLDS; MANIFOLD, HYDRAULIC CONTROL LINE; and MANIFOLD ASSEMBLY, AIR DRIVE.		
MANIFOLD, OXYGEN, AIRCRAFT	50257	MA
A single or multi-piece item with one inlet and two or more outlet ports. Designed to be used in Aircraft Breathing Oxygen Systems.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
MANIFOLD, VENT VALVE, UNDERWATER LOG	03046	MA
An item containing valves and cross connections for venting entrapped air from the hydraulic system of the underwater log equipment.		
NOZZLE, DISTRIBUTION, WATER	18310	EA
An item the discharge end of which is fitted with a hood, designed to be fitted on a water line to distribute the water uniformly over the surface of a tank or settling basin or uniformly drain a tank or settling basin.		
PROTECTOR, EROSION, CONDENSER TUBE	21141	LA
An open side tubular item of resilient metal with both edges of the open side flared along the entire length so that it may be clamped snugly over a condenser tube. It prevents impingement of high velocity moisture particles directly on the outside of the condenser tube.		
PROTECTOR, FLANGE	61531	FA
A piece of material specifically designed for attachment to the mating surface of a collar. When attached, it prevents surface damage during handling, shipping, storage and can easily be removed prior to installation.		
PUMP, EDDY EFFECT	67170	DA
An energy-generating rotor attached to the end of a drive shaft and placed within a volute. When engaged, it creates a peripheral "eddy" effect which forces agitated material into a discharge pipe.		
RESTRICTOR, FLUID FLOW	18263	DA
An item of solid, one-piece construction, designed to restrict the flow of a fluid through it. It has an orifice of a smaller size than the diameter of flow into it. Excludes items such as VALVE (1) (as modified), and others with an adjustable orifice. Excludes pipe, tube, or hose fittings with restricted passages and items designed to test fluid flow. For items containing screens or filters, see RESTRICTOR UNIT, FLUID FLOW.		
RESTRICTOR UNIT, FLUID FLOW	20933	CA
An assembly consisting of an orifice in a fixed plate, disk, or tube with screens or filters on one or both sides, depending on the direction of filtered flow. See also VALVE (1), RESTRICTOR CHECK and RESTRICTOR, FLUID FLOW.		
SEPARATOR, PIPELINE	04859	HA
A mechanical device used in a piping system carrying steam, air, or other vapor. It is designed to remove particles of condensed vapor or oil by means of baffles. If automatic draining, see TRAP, MOISTURE.		
SEPARATOR, SLUDGE, COMPRESSOR	37402	AB
An item designed to automatically remove residue and water from reservoir or air supply lines when pressure is applied and dispenses into atmosphere. May be controlled by governor cycle.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
SERVICE BOX, VALVE	13471	KA
A sectional metal pipe whose lower or base section is enlarged to cover an underground valve. The primary purpose is to provide an open shaft which will allow the insertion of the service box valve key.		
TRAP, AIR	18314	AA
A device used to automatically vent air from water or vent gas from any liquid in a pipe line or closed vessel. See also TRAP, MOISTURE.		
TRAP, MOISTURE	18315	AA
A device designed to operate in a compressed air or gas system, to accumulate moisture and automatically discharge it from the system.		
TRAP, STEAM	04853	BA
A device for allowing the passage of condensate, or air and condensate, and for preventing the passage of steam.		

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	<u>AA</u>	<u>AB</u>
NAME	X	X
BJDW	X	
AAFZ	X	X
BJDM	X	
BXMH	X	
BZSP	X	
ADGA	AR	AR
ABKW	AR	AR
ABMK	AR	AR
AWNW	X	X
BZSQ	X	X
ACRD	AR	AR
ACRF	AR	AR
ACRN	AR	AR
ACRL	AR	AR
ACRM	AR	AR
ARNX	AR	AR
BZSR	AR	AR
ACRX	AR	AR
AWTL	AR	AR
BZSS	AR	AR
BZST	AR	AR
BHCR	AR	AR
BHCS	AR	AR
BHCT	AR	AR
BHCW	AR	AR
ARTX	AR	AR
BZSW	AR	AR
ARTY	AR	AR
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
CBME	AR	AR
PRMT	AR	AR
PMWT	AR	AR
PMLC	AR	AR
SUPP	AR	AR
ZZZP	AR	AR
AGAV	AR	AR

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CXCY	AR	AR
HZRD	AR	AR

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	<u>BA</u>
NAME	X
ANNQ	X
SURF	AR
APGF	X
ALCS	X
AXSW	X
BZSX	X
BZSY	AR
BZSZ	AR
BZTB	X
BZTC	X
BZTD	X
BZTF	AR
AHTC	AR
ABKU	AR
BZTG	AR
AXAQ	AR
ARZJ	AR
BZTH	X
AJYP	AR
AAJF	AR
BZTJ	X
BZTK	X
BMBL	X
BZTL	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
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PMWT	AR
PMLC	AR
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CA

NAME	X
APGF	X
ADVR	AR
AHSJ	AR
ABHP	AR
ABMZ	AR
ASDB	AR
AAFZ	X
ADQT	AR
BZTM	X
AESE	AR
AQJQ	AR
SURF	AR
CCFG	X
CWRR	AR
AMSF	AR
BGST	X
AFGA	X
AXAL	X
AWZY	X
ANKA	AR
ANKB	AR
ABVK	AR
BZRR	AR
AAJD	AR
AAJF	AR
CFPS	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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	<u>DA</u>
NAME	X
MATL	X
SURF	AR
APGF	X
AFEW	X
ABVK	AR
BZRR	AR
AAJD	AR
AAJE	AR
AASA	AR
AAJF	AR
ABKV	X
ABRY	X
AMSF	X
CCFK	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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	<u>EA</u>
NAME	X
MATL	X
CGJB	X
CCFL	X
CCFM	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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MATL	X
ABPX	X
ADAV	AR
AARX	AR
ABHP	AR
ABMK	AR
ABSX	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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MATL	X
ABHP	X
AARX	X
AGWM	X
CDPJ	X
CDPK	AR
AHYF	AR
CDPL	AR
AMBG	AR
CDPN	AR
CDPP	AR
AHTC	AR
AGFF	AR
AFQN	AR
THDS	AR
AAJF	AR
CDYG	X
CDPR	X
ASXK	AR
BDFM	AR
CDPS	AR
AKAG	AR
CDPT	X
CDPW	AR
AKYN	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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CCFS	AR
ACRL	AR
ACRM	AR
ACRN	AR
ACRT	AR
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ARTH	X
CCGK	AR
BHCT	AR
BHCW	AR
BHCS	AR
CDPZ	AR
CDQB	AR
CDQC	AR
CDQD	AR
CDQF	AR
CDQG	AR
CDQH	AR
ATGF	AR
CGMG	X
CCZS	X
ADNK	AR
CFNQ	AR
CFNR	AR
CFNS	AR
CDQJ	AR
CDQL	AR
CDQM	AR
AGQA	AR
BGST	X
AKYN	AR
CFNN	X
CFNP	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

JA

NAME	X
MATL	X
SURF	AR
ARQS	X
ABSX	X
ADAV	X
AARX	X
ABKW	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>KA</u>
NAME	X
MATL	X
SURF	AR
ABWV	X
ABHP	X
AAPN	X
CJLX	X
CFNW	X
CFNX	X
CFNY	X
CFNZ	AR
CFPB	AR
CRPS	X
CFPF	X
AJUY	AR
AGEU	AR
AJCZ	AR
CFPG	X
CFPH	AR
CFPJ	AR
BDBN	AR
CFPK	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

FIIG T359
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>LA</u>
NAME	X
MATL	X
ACSV	X
AAGT	X
ABRY	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>MA</u>	<u>MB</u>
NAME	X	X
MATL	X	X
AQXP	X	X
CFPL	X	X
CCXJ	X	X
ARTG	X	X
CFPM	X	X
CFPN	X	X
BJDW	AR	AR
CFPP	AR	AR
AFHG	AR	AR
TMQY		X
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
CBME	AR	AR
PRMT	AR	AR
PMWT	AR	AR
PMLC	AR	AR
SUPP	AR	AR
ZZZP	AR	AR
AGAV	AR	AR
ZZZV	AR	AR
CXCY	AR	AR
HZRD	AR	AR

FIIG T359
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>NA</u>
NAME	X
APGF	X
ABHP	AR
AQPP	X
AJER	AR
APJC	AR
AJYN	AR
AJYP	AR
CFPQ	X
CFPR	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
AGAV	AR
ZZZV	AR
CXCY	AR
HZRD	AR

FIG T359
GENERAL INFORMATION
APPLICABILITY KEY INDEX

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GENERAL INFORMATION
APPLICABILITY KEY INDEX

[Page Break]

Body

SECTION: A

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED18314*)

AA

BJDW	J	MAXIMUM OPERATING PRESSURE
------	---	----------------------------

Definition: THE MAXIMUM PRESSURE AT WHICH THE ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BJDWJDQ150.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., BJDWKN*)

REPLY CODE	REPLY (AJ20)
CR	KILOGRAMS PER SQUARE CENTIMETER
DQ	POUNDS PER SQUARE INCH

ALL

AAFZ	D	BODY MATERIAL
------	---	---------------

Definition: THE BASIC MATERIAL OF WHICH THE BODY IS FABRICATED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AAFZDALC000*; AAFZDAL0000\$DBR0000*; AAFZDAL0000\$DBR0000*)

AA

BJDM	D	FLOAT MATERIAL
------	---	----------------

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FLOAT IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., BJDMDCU0000*; BJDMDBR0000\$DCU0000*; BJDMDBR0000\$DCU0000*)

AA

BXMH

D

VALVE MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE VALVE IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., BXMH DSTB000*; BXMH DSTB000\$DST0000*; BXMH DSTB000\$DST0000*)

AA

BZSP

D

FLOAT ARM MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FLOAT ARM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., BZSPDFE0000*; BZSPDBR0000\$DCU0000*; BZSPDBR0000\$DCU0000*)

NOTE FOR MRCS ADGA, ABKW, AND ABMK: REPLY TO MRCS ADGA AND ABKW FOR CIRCULAR ITEMS. REPLY TO MRCS ABKW AND ABMK FOR OTHER THAN CIRCULAR ITEMS.

ALL* (See Note Above)

ADGA

J

OVERALL OUTSIDE DIAMETER

Definition: THE OVERALL LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN ITEM, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADGAJAA4.500*; ADGAJLA114.3*; ADGAJAB4.475\$\$JAC4.535*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC ADGA)

ABKW J OVERALL HEIGHT

Definition: THE DISTANCE MEASURED IN A STRAIGHT LINE FROM THE BOTTOM TO THE TOP OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKWJAA4.500*; ABKWJLA139.7*; ABKWJAB4.475\$\$JAC4.525*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC ADGA)

ABMK J OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA4.500*; ABMKJLA114.3*; ABKWJAB4.475\$\$JAC4.525*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

NOTE FOR MRCS AWNW AND BZSQ: ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION. IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

ALL (See Note Above)

AWNW J INLET CONNECTION NOMINAL PIPE SIZE

Definition: THE NOMINAL VALUE USED TO DEFINE THE DIAMETER OF THE INLET CONNECTION PIPE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g.,

AWNWJA1.000;*

AWNWJL252.4)*

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL (See Note Preceding MRC AWNW)

BZSQ J INLET CONNECTION TYPE AND
QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF INLET CONNECTIONS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. Enter multiple replies in the same sequence as MRC AWNW. (e.g., BZSQJAM1)*

REPLY CODE

REPLY (AB76)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		MF	GROUND JOINT TAILPIECE W/UNION NUT
		AM	PLAIN FACE FLANGE
		AL	RAISED FACE FLANGE
		AG	THREADED EXTERNAL PIPE
		AC	THREADED EXTERNAL TUBE
		AE	THREADED INTERNAL PIPE
		AA	THREADED INTERNAL TUBE
		AJ	UNTHREADED EXTERNAL PIPE
		AD	UNTHREADED EXTERNAL TUBE
		AF	UNTHREADED INTERNAL PIPE
		AB	UNTHREADED INTERNAL TUBE

NOTE FOR MRCS ACRD, ACRF, ACRN, ACRL, ACRM, ARNX, BZSR, AND ACRX: IF REPLY CODE AL OR AM IS ENTERED FOR MRC BZSQ, REPLY TO MRCS ACRD, ACRF, ACRN, ACRL, AND ACRM. IF REPLY CODE AG OR AE IS ENTERED FOR MRC BZSQ, REPLY TO MRCS ARNX, BZSR, AND ACRX. ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION. IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST. MULTIPLE REPLIES USE AND (\$\$) CODING ENTERING A REPLY FOR EACH INLET CONNECTION TYPE IN THE SAME SEQUENCE AS MRC BZSQ. USE AND (\$\$) CODING TO ENTER TOLERANCE VALUES, WHERE APPLICABLE. ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION. IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST. MULTIPLE REPLIES USE SECONDARY ADDRESS CODING ENTERING A REPLY FOR EACH INLET CONNECTION TYPE IN THE SAME SEQUENCE AS MRC BZSQ. USE AND CODING TO ENTER TOLERANCE VALUES, WHERE APPLICABLE.

ALL* (See Note Above)

ACRD J INLET FLANGE OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH CENTER OF THE INLET FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRDJAA3.500;*

ACRDJLA88.9;*

ACRDJAB3.480\$\$JAC3.520)*

Table 1

REPLY CODE

REPLY (AA05)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u> <u>REPLY CODE</u>	
		A	<u>REPLY (AC20)</u> NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC ACRD)

ACRF J INLET FLANGE THICKNESS

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF AN INLET FLANGE, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRFJAA0.500;*

ACRFJLA12.7;*

ACRFJAB0.490\$\$JAC0.510)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC ACRD)

ACRN J INLET BOLT CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN INLET BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRNJAA2.500;*

ACRNJLA63.5;*

ACRNJAB2.480\$\$JAC2.520)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ACRD)

ACRL	A	INLET BOLT HOLE QUANTITY
------	---	--------------------------

Definition: THE NUMBER OF INLET BOLT HOLES ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., ACRLA4)*

ALL* (See Note Preceding MRC ACRD)

ACRM	J	INLET BOLT HOLE DIAMETER
------	---	--------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN INLET BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRMJAA0.375;*

ACRMJLA26.4;*

ACRMJAB0.370\$\$JAC0.380)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ACRD)

ARNX D INLET THREAD SERIES DESIGNATOR

Definition: A DESIGNATION INDICATING THE DIAMETER-PITCH AND THE NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE APPLIED TO A SERIES OF SPECIFIC DIAMETERS OF AN INLET.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARNXDNP)*

REPLY CODE

NP

UN

REPLY (AH06)

NPT

UN

ALL* (See Note Preceding MRC ACRD)

BZSR A INLET THREAD QUANTITY PER INCH

Definition: A MEASUREMENT OF THE NUMBER OF THREADS ON THE INLET PER LINEAR INCH, INCLUDING INCOMPLETE THREADS, ON A LINE PARALLEL TO THE THREAD AXIS.

Reply Instructions: Enter the quantity. (e.g., BZSRA14)*

ALL* (See Note Preceding MRC ACRD)

ACRX D INLET THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACRXDL)*

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
			<u>REPLY CODE</u>
			<u>REPLY (AA38)</u>
			LEFT-HAND
			RIGHT-HAND

NOTE FOR MRCS AWTL AND BZSS: ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION USING AND (\$\$) CODING. IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

ALL* (See Note Above)

AWTL J OUTLET CONNECTION NOMINAL PIPE
SIZE

Definition: THE NOMINAL VALUE USED TO DEFINE THE DIAMETER OF THE OUTLET CONNECTION PIPE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AWTLJA0.750;*

AWTLJL19.1;*

AWTLJA0.750\$\$JA1.000)*

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL* (See Note Preceding MRC AWTL)

BZSS J OUTLET CONNECTION TYPE AND
QUANTITY

Definition: INDICATES THE TYPE AND NUMBER OF OUTLET CONNECTIONS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. Enter multiple replies in the same sequence as MRC AWTL. (e.g.,

BZSSJAMI;*

BZSSJAMI\$\$JMG1)*

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AB76)</u>
		MG	GROOVED FACE FLANGE
		AM	PLAIN FACE FLANGE
		AG	THREADED EXTERNAL PIPE
		AC	THREADED EXTERNAL TUBE
		AE	THREADED INTERNAL PIPE
		AA	THREADED INTERNAL TUBE
		AJ	UNTHREADED EXTERNAL PIPE
		AD	UNTHREADED EXTERNAL TUBE
		AF	UNTHREADED INTERNAL PIPE
		AB	UNTHREADED INTERNAL TUBE

NOTE FOR MRCS BZST, BHCR, BHCS, BHCT, BHCW, ARTX, BZSW, AND ARTY: IF REPLY CODE MG OR AM IS ENTERED FOR MRC BZSS, REPLY TO MRCS BZST, BHCR, BHCS, BHCT, AND BHCW. IF REPLY CODE AG OR AE IS ENTERED FOR MRC BZSS, REPLY TO MRC ARTX, BZSW, AND ARTY.

ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION. IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

FOR MULTIPLE REPLIES USE AND (\$\$) CODING ENTERING A REPLY FOR EACH OUTLET CONNECTION TYPE IN THE SAME SEQUENCE AS MRC BZSS. USE AND (\$\$) CODING TO ENTER TOLERANCE VALUES, WHERE APPLICABLE.

ALL* (See Note Above)

BZST J OUTLET FLANGE OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE OUTLET FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BZSTJAA3.500*;

BZSTJLA88.9*;

BZSTJAB3.480\$\$JAC3.520*)

Table 1

REPLY CODE
A
L

REPLY (AA05)
INCHES
MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

		<u>Table 2</u> <u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC BZST)

BHCR J OUTLET FLANGE THICKNESS

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF AN OUTLET FLANGE, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHCRJAA0.500;;*

BHCRJLA12.7;*

BHCRJAB0.495\$\$JAC0.505)*

<u>Table 1</u> <u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u> <u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC BZST)

BHCS J OUTLET BOLT CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN OUTLET BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHCSJAA2.500;*

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

BHCSJLA63.5;*

BHCSJAB2.480\$\$JAC2.520)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC BZST)

BHCT	A	OUTLET BOLT HOLE QUANTITY
------	---	---------------------------

Definition: THE NUMBER OF OUTLET BOLT HOLE(S) ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., BHCTA4)*

ALL* (See Note Preceding MRC BZST)

BHCW	J	OUTLET BOLT HOLE DIAMETER
------	---	---------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN OUTLET BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHCWJAA0.375;*

BHCWJLA26.4)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

REPLY (AC20)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC ACRD)

ARTX D OUTLET THREAD SERIES DESIGNATOR

Definition: A DESIGNATION INDICATING THE DIAMETER-PITCH AND THE NUMBER OF THREADS PER MEASUREMENT SCALE APPLIED TO A SERIES OF DIAMETERS OF AN OUTLET.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARTXDNP)*

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
NP	NPT
UN	UN

ALL* (See Note Preceding MRC BZST)

BZSW A OUTLET THREAD QUANTITY PER INCH

Definition: A MEASUREMENT OF THE NUMBER OF THREADS ON THE OUTLET PER LINEAR INCH, INCLUDING INCOMPLETE THREADS, ON A LINE PARALLEL TO THE THREAD AXIS.

Reply Instructions: Enter the quantity. (e.g.,

BZSWA14;*

BZSWA14\$\$A16)*

ALL* (See Note Preceding MRC BZST)

ARTY D OUTLET THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARTYDL)*

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
		L	LEFT-HAND
		R	RIGHT-HAND

FIIG T
Section Parts

SECTION: B

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED04853*)

ALL

ANNQ	H	MATERIAL AND LOCATION
------	---	-----------------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT AND ITS LOCATION.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1 and the table below respectively. (e.g., ANNQHST0000ABQ*;

ANNQHST0000ABQ\$\$HSTB0000ABQ;*

ANNQHST0000AGE\$HSTB0000AGE)*

If no location is indicated for the material, enter Reply Code AAB from the table below.

Mode Code K not authorized for this requirement.

REPLY CODE

ABQ
AGE
CJX
AAB
CKA
AHD
CJY
CJZ
CKB

REPLY (AJ91)

BODY
CAP
ORIFICE
OVERALL
STRAINER
TUBE
VALVE HEAD
VALVE SEAT
WORKING PARTS

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDBFG000*; SURFDCDR000\$DPN0000*; SURFDCDR000\$DPN0000*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., APGFDZZ*)

ALL

ALCS	D	BODY DESIGN
------	---	-------------

Definition: THE DESIGN OF THE BODY OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALCSDAE*; ALCSADAD\$DAE*)

<u>REPLY CODE</u>	<u>REPLY (AH27)</u>
AD	ANGLE PATTERN
AE	CORNER PATTERN
AF	LEFT CORNER PATTERN
AG	RIGHT CORNER PATTERN
AJ	STRAIGHT HORIZONTAL PATTERN
AH	STRAIGHT PATTERN
AK	STRAIGHT VERTICAL PATTERN

ALL

AXSW	J	MAXIMUM STEAM WORKING PRESSURE
------	---	--------------------------------

Definition: THE MAXIMUM STEAM PRESSURE AT WHICH THE ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AXSWJV10.0*; AXSWJK4882.0*)

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AXSWKN*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
V	POUNDS PER SQUARE INCH

ALL

BZSX	J	RATED CAPACITY AT MAXIMUM WORKING PRESSURE
------	---	--

Definition: THE RATED CAPACITY OF THE ITEM AT MAXIMUM WORKING PRESSURE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BZSXJHW600.0*; BZSXJHX272.2*)

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
HX	KILOGRAMS OF WATER PER HOUR
HW	POUNDS OF WATER PER HOUR

ALL*

BZSY	J	RADIATING SURFACE AREA ON WHICH CAPACITY IS BASED
------	---	---

Definition: A MEASUREMENT OF THE AREA OF THE RADIATING SURFACE ON WHICH THE CAPACITY OF THE ITEM IS BASED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BZSYJDQ200.0*; BZSYJEL18.6*)

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
DQ	SQUARE FEET
EL	SQUARE METERS

NOTE FOR MRC BZSZ: IF A REPLY IS ENTERED FOR MRC BZSY, REPLY TO MRC BZSZ.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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ALL* (See Note Above)

BZSZ	J	WATER CAPACITY PER HOUR
------	---	-------------------------

Definition: THE CAPACITY OF WATER PER HOUR OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BZSZJAS50.0*; BZSZJAJ22.7*)

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
AJ	KILOGRAMS
AS	POUNDS

ALL

BZTB	D	INLET/OUTLET CONNECTION SIMILARITY
------	---	------------------------------------

Definition: AN INDICATION OF WHETHER OR NOT THE INLET AND/OR OUTLET CONNECTION(S) IS IDENTICAL.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BZTBDB*)

<u>REPLY CODE</u>	<u>REPLY (AB78)</u>
B	IDENTICAL
F	NOT IDENTICAL

IF REPLY CODE F IS ENTERED FOR MRC BZTB, USE SECONDARY ADDRESS CODING, ENTERING A REPLY FOR EACH CONNECTION, BEGINNING WITH INLET. NOTE FOR MRCS BZTC, BZTD, AND BZTH: IF REPLY CODE B IS ENTERED FOR MRC BZTB, ENTER A SINGLE REPLY TO MRCS BZTC, BZTD, AND BZTH. IF REPLY CODE F IS ENTERED FOR MRC BZTB, USE IDENTIFIED SECONDARY ADDRESS CODING (ISAC), ENTERING A REPLY FOR EACH CONNECTION, BEGINNING WITH INLET.

ALL (See Note Above)

<i>BZTC</i>	<i>J</i>	<i>INLET/OUTLET CONNECTION NOMINAL PIPE SIZE</i>
-------------	----------	--

FIIG T
Section Parts

Definition: THE VALUE USED TO DEFINE THE NOMINAL DIAMETER OF THE INLET AND/OR OUTLET CONNECTION PIPE.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from the Table 2 below, followed by the numeric value. (e.g.,

BZTC1GJA1.500;*

BZTC1NJL38.1)*

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

Table 2

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

ALL (See Note Preceding MRC BZTC)

BZTD D INLET/OUTLET CONNECTION TYPE

Definition: INDICATES THE TYPE OF INLET AND/OR OUTLET CONNECTION PROVIDED.

Reply Instructions: Enter the applicable ISAC from Table below followed by the Reply Code from Appendix A, Table 4. (e.g., BZTD1GDDAN)*

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

NOTE FOR MRCS BZTF, AHTC, ABKU, BZTG, AXAQ, AND ARZJ: IF REPLY CODE BJ IS ENTERED FOR MRC BZTD, REPLY TO THESE MRCS. ENTER A REPLY FOR EACH CONNECTION USING IDENTIFIED SECONDARY ADDRESS CODING. USE AND CODING (\$\$) TO ENTER TOLERANCE VALUES, WHERE APPLICABLE.

FIIG T
Section Parts

ALL (See Note Above)*

BZTF D FLANGE FACING TYPE

Definition: THE TYPE OF FLANGE FACING PROVIDED.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from the Table 2 below. (e.g., BZTF1GDAZ)*

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

Table 2

REPLY CODE

AZ

BJ

REPLY (AG89)

PLAIN

RAISED

ALL (See Note Preceding MRC BZTF)*

AHTC J FLANGE OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Codes from Tables 2 and 3 below, followed by the numeric value. (e.g., AHTC1GJAA3.500;*

AHTC1NJLA88.9;*

AHTC1GJAB3.475\$\$1NJAC3.525)*

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OULTET

INLET

OUTLET

Table 2

REPLY CODE

A

REPLY (AA05)

INCHES

FIIG T
Section Parts

L *MILLIMETERS*

Table 3

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC BZTF)

ABKU J FLANGE THICKNESS

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF A FLANGE IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Codes from Tables 2 and 3 below, followed by the numeric value. (e.g., ABKU1GJAA0.375*;

ABKU1NJLA26.4*;

ABKU1GJAB0.370\$\$1NJAC0.380*)

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

Table 2

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 3

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC BZTF)

BZTG J FLANGE BOLT CIRCLE DIAMETER

FIIG T
Section Parts

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A FLANGE BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Codes from Tables 2 and 3 below, followed by the numeric value. (e.g., BZTG1GJAA2.125*;

BZTG1NJLA5.4*;

BZTG1GJAB2.115\$\$JAC2.135*)

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

Table 2

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 3

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL (See Note Preceding MRC BZTF)*

AXAQ A FLANGE BOLT HOLE QUANTITY

Definition: THE NUMBER OF BOLT HOLES IN THE FLANGE.

Reply Instructions: Enter ISAC from Table below followed by the quantity. (e.g., AXAQ1GA4)*

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

ALL (See Note Preceding MRC BZTF)*

ARZJ J FLANGE BOLT HOLE DIAMETER

FIIG T
Section Parts

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE FLANGE BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Codes from Tables 2 and 3 below, followed by the numeric value. (e.g., ARZJIGJAA0.375;*

ARZJINJLA26.4;*

ARZJIGJAB0.370\$\$JAC0.380)*

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

Table 2

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 3

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL (See Note Preceding MRC BZTF)

BZTH D INLET/OUTLET CONNETION THREAD PROVISION

Definition: AN INDICATION OF WHETHER OR NOT THE INLET AND/OR OUTLET CONNECTION IS THREADED.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., BZTHIGDB)*

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

FIG T
Section Parts

Table 2
REPLY CODE
B
C

REPLY (AE00)
THREADED
UNTHREADED

NOTE FOR MRC AJYP AND AAJF: IF REPLY CODE B IS ENTERED FOR MRC BZTH, REPLY TO MRCS AJYP AND AAJF.

ALL* (See Note Above)

AJYP D SCREW THREAD SERIES DESIGNATOR

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., AJYP1GDNP*)

Table 1
REPLY CODE
1P
1G
IN

REPLY (0265)
BOTH INLET AND OUTLET
INLET
OUTLET

Table 2
REPLY CODE
NP
UN

REPLY (AH06)
NPT
UN

ALL* (See Note Preceding MRC AJYP)

AAJF D *THREAD DIRECTION*

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

FIG T
Section Parts

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., AAJF1GDL)*

Table 1

REPLY CODE

IP

IG

IN

REPLY (0265)

BOTH INLET AND OUTLET

INLET

OUTLET

Table 2

REPLY CODE

L

R

C

REPLY (AA38)

LEFT-HAND

RIGHT-HAND

UNTHREADED

ALL

BZTJ D INLET LOCATION IN RELATION TO INSTALLED POSITION

Definition: INDICATES THE LOCATION OF THE INLET IN RELATION TO THE INSTALLED POSITION OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BZTJDCLB*; BZTJDCLB\$\$DBJR*)

REPLY CODE

CLB

CLC

CLD

ACZ

ARF

BJF

REPLY (AJ91)

BOTTOM END

CENTER SIDE

LOWER SIDE

SIDE

TOP END

UPPER SIDE

ALL

BZTK D OUTLET LOCATION IN RELATION TO INSTALLED POSITION

Definition: INDICATES THE LOCATION OF THE OUTLET IN RELATION TO THE INSTALLED POSITION OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BZTKDACZ*; BZTKDCLB\$\$DBJF*)

FIIG T
Section Parts

REPLY CODE

CLB

CLC

CLD

ACZ

ARF

BJF

REPLY (AJ91)

BOTTOM END

CENTER SIDE

LOWER SIDE

SIDE

TOP END

UPPER SIDE

ALL

BMBL D STRAINER

Definition: AN INDICATION OF WHETHER OR NOT A STRAINER IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMBLDB*)

REPLY CODE

B

C

REPLY (AA49)

INCLUDED

NOT INCLUDED

ALL

BZTL D GAGE GLASS

Definition: AN INDICATION OF WHETHER OR NOT A GAGE GLASS IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BZTLDB*)

REPLY CODE

B

C

REPLY (AA49)

INCLUDED

NOT INCLUDED

FIIG T
Section Parts

SECTION: C

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED20933*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDASC*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
ASC	ANGULAR
AMN	STRAIGHT

NOTE FOR MRCS ADVR, AHSJ, AND ABHP: IF REPLY CODE ASC IS ENTERED FOR MRC APGF, REPLY TO MRCS ADVR AND AHSJ. IF REPLY CODE AMN IS ENTERED FOR MRC APGF, REPLY TO MRC ABHP.

ALL* (See Note Preceding MRC ADVR)

ADVR	B	ANGLE IN DEG
------	---	--------------

Definition: THE ANGLE FORMED BY THE ANGULAR PORTION OF THE ITEM, EXPRESSED IN DEGREES.

Reply Instructions: Enter the numeric value. (e.g., ADVRB45.0*)

ALL* (See Note Preceding MRC ADVR)

AHSJ	J	LEG LENGTH
------	---	------------

Definition: A MEASUREMENT OF THE LONGEST, DIMENSION OF THE LEG, IN DISTINCTION FROM WIDTH.

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AHSJJAA1.750*; AHSJJLA44.5*; AHSJJAB1.735\$\$JAC1.765*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ADVR)

ABHP

J

OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA2.120*; ABHPJLA53.8*; ABHPJAB2.110\$\$JAC2.140*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

NOTE FOR MRC ABMZ: REPLY TO MRC ABMZ, FOR CIRCULAR ITEMS.

ALL* (See Note Above)

ABMZ

J

DIAMETER

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.687*; ABMZJLA17.4*; ABMZJAB0.682\$\$JAC0.692*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

NOTE FOR MRC ASDB: REPLY TO MRC ASDB FOR OTHER THAN CIRCULAR ITEMS.

ALL* (See Note Above)

ASDB

J

WIDTH ACROSS FLATS

Definition: THE SHORTEST STRAIGHT LINE BETWEEN FLATS, PERPENDICULAR TO THE HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ASDBJAA0.813*; ASDBJLA20.6*; ASDBJAB0.805\$\$JAC0.820*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements						
<hr/>									
ALL									
	AAFZ	D	BODY MATERIAL						
	Definition: THE BASIC MATERIAL OF WHICH THE BODY IS FABRICATED.								
	Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., AAFZDALC000*; AAFZDALC000\$DBR0000*; AAFZDALC000\$\$DBR0000*)								
ALL*									
	ADQT	D	PACKING MATERIAL						
	Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE PACKING IS FABRICATED.								
	Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., ADQTD RCC000*; ADQTDPC0000\$DRCC000*; ADQTDPC0000\$DRCC000*)								
ALL									
	BZTM	J	STRAINER TYPE AND QUANTITY						
	Definition: INDICATES THE TYPE AND NUMBER OF STRAINERS PROVIDED.								
	Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., BZTMJDQD2*)								
	<table><tr><td><u>REPLY CODE</u></td><td><u>REPLY (AK54)</u></td></tr><tr><td>DQD</td><td>FILTER</td></tr><tr><td>DQE</td><td>SCREEN</td></tr></table>		<u>REPLY CODE</u>	<u>REPLY (AK54)</u>	DQD	FILTER	DQE	SCREEN	
<u>REPLY CODE</u>	<u>REPLY (AK54)</u>								
DQD	FILTER								
DQE	SCREEN								
NOTE FOR MRCS AESE AND AQJQ: IF REPLY CODE DQD IS ENTERED FOR MRC BZTM, REPLY TO MRC AESE. IF REPLY CODE DQE IS ENTERED FOR MRC BZTM, REPLY TO MRC AQJQ.									
ALL* (See Note Above)									
	AESE	D	FILTER MATERIAL						
	Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FILTER IS FABRICATED.								

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AESEDSTB000*; AESEDCC0000\$DFT0000*; AESEDCC0000\$DFT0000*)

ALL* (See Note Preceding MRC AESE)

AQJQ

D

SCREENING MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE SCREENING IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AQJQDSTB000*; AQJQDAL0000\$DSTB000*; AQJQDAL0000\$DSTB000*)

ALL*

SURF

D

SURFACE TREATMENT

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$DCDR000*; SURFDAN0000\$DCDR000*)

ALL

CCFG

J

VALVE SIZE

Definition: DESIGNATES THE SIZE OF THE VALVE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CCFGJA0.250*; CCFGJL6.4*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL*

CWRR

J

FLOW RATE AND FLUID TYPE

Definition: THE AMOUNT OF FLOW PER UNIT OF MEASURE AND THE FLUID TYPE FOR WHICH THE ITEM IS DESIGNED.

FIIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CWRRJCQABR7000.0*; CWRRJCQACJ4500.0\$\$JACQAAQ1700.0*)

Table 1

REPLY CODE

CQ

CR

REPLY (AG67)

GALLONS PER MINUTE

LITERS PER MINUTE

Table 2

REPLY CODE

AAQ

ACJ

ABR

REPLY (AN91)

GAS

OIL

WATER

NOTE FOR MRC AMSF: IF A REPLY IS NOT ENTERED FOR MRC CWRR, REPLY TO MRC AMSF.

ALL* (See Note Above)

AMSF

J

ORIFICE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ORIFICE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AMSFJAA0.048*; AMSFJLA1.2*; AMSFJAB0.045\$\$JAC0.051*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	BGST	J	PRESSURE RATING

Definition: THE PRESSURE AT WHICH AN ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BGSTJFBA3000.0*; BGSTJEYA281240.0*; BGSTJFBB2900.0\$\$JFBC3100.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., BGSTKN*)

Table 1

REPLY CODE

EY

FB

REPLY (AG67)

KILOGRAMS PER SQUARE CENTIMETER

POUNDS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

AFGA	J	OPERATING TEMP RANGE
------	---	----------------------

Definition: THE MINIMUM AND MAXIMUM LIMITS OF TEMPERATURE AT WHICH THE ITEM IS RATED, FOR OPERATION.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash and preceded by the letter M or P indicating minus or plus. (e.g., AFGAJFM65.0/P160.0*; AFGAJCM58.0/P75.0*)

REPLY CODE

C

F

REPLY (AB36)

DEG CELSIUS (centigrade)

DEG FAHRENHEIT

ALL

AXAL	D	END CONNECTION SIMILARITY
------	---	---------------------------

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

Definition: AN INDICATION OF WHETHER OR NOT THE END CONNECTIONS ARE IDENTICAL.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AXALDB*)

<u>REPLY CODE</u>	<u>REPLY (AA37)</u>
C	IDENTICAL
B	NOT IDENTICAL

NOTE FOR MRC AWZY: ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTON USING SECONDARY ADDRESS CODING. IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

ALL (See Note Above)*

AWZY D END OF CONNECTION YPE

Definition: INDICATES THE TYPE OF END CONNECTION.

Reply Instructions: Enter the applicable ISAC from Table below followed by the Reply Code from [Appendix A](#), Table 5. (e.g., AWZY1ADCT)*

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
<i>1Z</i>	<i>ALL CONNECTIONS</i>
<i>1A</i>	<i>FIRST CONNECTION</i>
<i>1D</i>	<i>FOURTH CONNECTION</i>
<i>1B</i>	<i>SECOND CONNECTION</i>
<i>1Y</i>	<i>SINGLE CONNECTION</i>
<i>1C</i>	<i>THIRD CONNECTION</i>

FIIG T
Section Parts

NOTE FOR MRCS ANKA, ANKB, ABVK, BZRR, AAJD, AND AAJF: IF REPLY CODE BW, MW, MZ, OR NF IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKA. IF REPLY CODE MX OR NC IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKB. FOR ALL OTHER REPLY CODES ENTERED FOR MRC AWZY, EXCEPT NJ, REPLY TO MRCS ABVK, BZRR, AAJD, AND AAJF. IF REPLY CODE NJ IS ENTERED FOR MRC AWZY, REPLY TO MRC CFPS. ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION USING IDENTIFIED SECONDARY ADDRESS CODING (ISAC). IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

NOTE FOR MRCS ANKA, ANKB, ABVK, BZRR, AAJD, AND AAJF: IF REPLY CODE BW, MW, MZ, OR NF IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKA. IF REPLY CODE MX OR NC IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKB. FOR ALL OTHER REPLY CODES ENTERED FOR MRC AWZY, EXCEPT NJ, REPLY TO MRCS ABVK, BZRR, AAJD, AND AAJF. IF REPLY CODE NJ IS ENTERED FOR MRC AWZY, REPLY TO MRC CFPS. ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION USING IDENTIFIED SECONDARY ADDRESS CODING (ISAC). IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

NOTE FOR MRCS, ANKB, ABVK, BZRR, AAJD, AND AAJF: IF REPLY CODE BW, MW, MZ, OR NF IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKA. IF REPLY CODE MX OR NC IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKB. FOR ALL OTHER REPLY CODES ENTERED FOR MRC AWZY, EXCEPT NJ, REPLY TO MRCS ABVK, BZRR, AAJD, AND AAJF. IF REPLY CODE NJ IS ENTERED FOR MRC AWZY, REPLY TO MRC CFPS. ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION USING IDENTIFIED SECONDARY ADDRESS CODING (ISAC). IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

NOTE FOR MRCS, ANKB, ABVK, BZRR, AAJD, AND AAJF: IF REPLY CODE BW, MW, MZ, OR NF IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKA. IF REPLY CODE MX OR NC IS ENTERED FOR MRC AWZY, REPLY TO MRC ANKB. FOR ALL OTHER REPLY CODES ENTERED FOR MRC AWZY, EXCEPT NJ, REPLY TO MRCS ABVK, BZRR, AAJD, AND AAJF. IF REPLY CODE NJ IS ENTERED FOR MRC AWZY, REPLY TO MRC CFPS. ENTER A REPLY FOR EACH DIFFERENT SIZE AND/OR TYPE OF CONNECTION USING IDENTIFIED SECONDARY ADDRESS CODING (ISAC). IF CONNECTIONS ARE THE SAME TYPE WITH DIFFERENT SIZES, ENTER REPLIES FOR THE SMALLER SIZE CONNECTION FIRST.

ALL* (See Note Above)

ANKA	B	CONNECTION SEAT ANGLE IN DEG
------	---	------------------------------

Definition: THE ANGLE OF THE CONNECTION END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.

Reply Instructions: Enter the applicable ISAC from Table below followed by the numeric value. (e.g., ANKA1AB37.0*)

FIIG T
Section Parts

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1A	FIRST CONNECTION
<i>1D</i>	<i>FOURTH CONNECTION</i>
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

ALL (See Note Preceding MRC ANKA)*

ANKB D COMPRESSION TYPE

Definition: INDICATES THE TYPE OF COMPRESSION FURNISHED.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., ANKBIADAAB; ANKBIADAAB\$1BDAAF*)*

Table 1

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1A	FIRST CONNECTION
<i>1D</i>	<i>FOURTH CONNECTION</i>
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

Table 2

<u>REPLY CODE</u>	<u>REPLY (AJ70)</u>
AAB	BALL
AAF	DOUBLE COMPRESSION
AAE	FLEX
AAG	GASKET SEAL

ALL (See Note Preceding MRC ANKA)*

ABVK A THREAD SIZE DESIGNATOR

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the ISAC from Table below followed by the size and quantity of threads per inch. (e.g., ABVK1AA7/16-20)*

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
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FIIG T
Section Parts

<i>IZ</i>	<i>ALL CONNECTIONS</i>
<i>IA</i>	<i>FIRST CONNECTION</i>
<i>ID</i>	<i>FOURTH CONNECTION</i>
<i>IB</i>	<i>SECOND CONNECTION</i>
<i>IY</i>	<i>SINGLE CONNECTION</i>
<i>IC</i>	<i>THIRD CONNECTION</i>

ALL (See Note Preceding MRC ANKA)*

BZRR D THREAD SERIES

Definition: A DESIGNATION INDICATING THE DIAMETER-PITCH COMBINATION AND THE NUMBER OF THREADS PER MEASUREMENT SCALE APPLIED TO A SERIES OF DIAMETERS.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., BZRR1ADNF)*

Table 1

<u><i>REPLY CODE</i></u>	<u><i>REPLY (0261)</i></u>
<i>IZ</i>	<i>ALL CONNECTIONS</i>
<i>IA</i>	<i>FIRST CONNECTION</i>
<i>ID</i>	<i>FOURTH CONNECTION</i>
<i>IB</i>	<i>SECOND CONNECTION</i>
<i>IY</i>	<i>SINGLE CONNECTION</i>
<i>IC</i>	<i>THIRD CONNECTION</i>

Table 2

<u><i>REPLY CODE</i></u>	<u><i>REPLY (AH06)</i></u>
<i>NP</i>	<i>BPT</i>
<i>NT</i>	<i>NPTF</i>
<i>NF</i>	<i>UNF</i>
<i>JF</i>	<i>UNJF</i>
<i>NS</i>	<i>UNS</i>

ALL (See Note Preceding MRC ANKA)*

AAJD A THREAD CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the applicable ISAC from Table below followed by the thread class. (e.g., AAJD1AA3A)*

FIIG T
Section Parts

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

ALL* (See Note Preceding MRC ANKA)

AAJF D THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., AAJF1ADL)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
L	LEFT-HAND
R	RIGHT-HAND

ALL*

CFPS G END CONNECTION COMPONENT TYPE AND SIZE FOR WHICH DESIGNED

Definition: INDICATES THE END CONNECTION COMPONENT TYPE AND SIZE FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the reply in clear text, using nominal size for hose or pipe, or the outside diameter for tube. (e.g., CFPSG1/8 IN. PIPE*; CFPSG1/4 IN. OD TUBE*)

FIIG T
Section Parts

SECTION: D

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED18263*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDALC000*; MATLDALC000\$DBR0000*; MATLDALC000\$\$DBR0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$DCDR000*; SURFDAN0000\$\$DCDR000*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDDXZ*)

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
DXZ	CONCAVE DISK
AQR	PLATE
AEM	TUBULAR

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	DYA		TUBULAR, HEX SHAPE

ALL

AFEW

D

THREAD

Definition: AN INDICATION OF WHETHER A PORTION(S) OF THE ITEM IS THREADED OR UNTHREADED.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., AFEWIADB)*

Table 1

REPLY CODE

1Z

1E

1A

1D

1B

1X

1C

REPLY (0159)

ALL PROVISIONS

FIFTH PROVISION

FIRST PROVISION

FOURTH PROVISION

SECOND PROVISION

SINGLE PROVISION

THIRD PROVISION

Table 2

REPLY CODE

B

C

REPLY (AE00)

THREADED

UNTHREADED

NOTE FOR MRCS ABVK, BZRR, AASA, AND AAJF: IF REPLY CODE B IS ENTERED FOR MRC AFEW, REPLY TO THESE MRCS. USE IDENTIFIED SECONDARY ADDRESS CODING (ISAC) TO ENTER A REPLY FOR EACH THREADED PORTION.

ALL (See Note Above)*

ABVK

A

THREAD SIZE DESIGNATOR

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

FIIG T
Section Parts

Reply Instructions: Enter the applicable ISAC from Table below followed by the thread diameter and the number of threads per specific measurement scale. (e.g., ABVK1AA7/16-20)

<u>REPLY CODE</u>	<u>REPLY (0159)</u>
1Z	ALL PROVISIONS
1E	FIFTH PROVISION
1A	FIRST PROVISION
1D	FOURTH PROVISION
1B	SECOND PROVISION
1X	SINGLE PROVISION
1C	THIRD PROVISION

ALL (See Note Preceding MRC ABVK)*

BZRR D THREAD SERIES

Definition: A DESIGNATION INDICATING THE DIAMETER-PITCH COMBINATION AND THE NUMBER OF THREADS PER MEASUREMENT SCALE APPLIED TO A SERIES OF DIAMETERS.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., BZRRIADAN)*

Table 1

<u>REPLY CODE</u>	<u>REPLY (0159)</u>
1Z	ALL PROVISIONS
1E	FIFTH PROVISION
1A	FIRST PROVISION
1D	FOURTH PROVISION
1B	SECOND PRO VISION
1X	SINGLE PROVISION
1C	THIRD PROVISION

Table 2

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
AN	ANPT Nonstandard (use Reply Code NS)
NT	NPTF
NC	UNC
NE	UNEF
NF	UNF
JF	UNJF
NS	UNS

FIIG T
Section Parts

NOTE FOR MRCS AAJD AND AAJE: IF A STANDARD THREAD SERIES IS ENTERED FOR MRC BZRR, REPLY TO MRC AAJD. IF REPLY CODE NS IS ENTERED FOR MRC BZRR, REPLY TO MRC AAJE. USE IDENTIFIED SECONDARY ADDRESS CODING (ISAC) TO ENTER A REPLY FOR EACH THREADED PORTION.

ALL (See Note Above)*

AAJD A THREAD CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the applicable ISAC from Table below followed by the thread class. (e.g., AAJD1AA2B)*

<u>REPLY CODE</u>	<u>REPLY (0159)</u>
1Z	ALL PROVISIONS
1E	FIFTH PROVISION
1A	FIRST PROVISION
1D	FOURTH PROVISION
1B	SECOND PROVISION
1X	SINGLE PROVISION
1C	THIRD PROVISION

ALL (See Note Preceding MRC AAJD)*

AAJE J THREAD PITCH DIAMETERS

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the ISAC from Table 1 below followed by the applicable Reply Code from Table 2 below, followed by the numeric values. Precede each value with the letter P. (e.g.,

AAJE1AJAP0.5859/P0.5889;*

AAJE1AJLP14.9/P15.3)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (0159)</u>
1Z	ALL PROVISIONS
1E	FIFTH PROVISION
1A	FIRST PROVISION

FIIG T

Section Parts

<i>ID</i>	<i>FOURTH PROVISION</i>
<i>IB</i>	<i>SECOND PROVISION</i>
<i>IX</i>	<i>SINGLE PROVISION</i>
<i>IC</i>	<i>THIRD PROVISION</i>

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AA054)</u>
A	INCHES
L	MILLIMETERS

ALL* (See Note Preceding MRC ABVK)

AASA	J	THREAD LENGTH
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Definition: A MEASUREMENT OF THE EXTENT OF THREADS, INCLUDING INCOMPLETE THREADS, ALONG A LINE PARALLEL TO THE LONGITUDINAL AXIS.

Reply Instructions: Enter the ISAC from Table 1 below followed by the applicable Reply Codes from Tables 2 and 3 below, followed by the numeric value. (e.g., AASA1AJAA1.000*;

AASA1AJLA25.4*;

AASA1AJAB0.990\$\$JAC1.010*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (0159)</u>
<i>IZ</i>	<i>ALL PROVISIONS</i>
<i>IE</i>	<i>FIFTH PROVISION</i>
<i>IA</i>	<i>FIRST PROVISION</i>
<i>ID</i>	<i>FOURTH PROVISION</i>
<i>IB</i>	<i>SECOND PROVISION</i>
<i>IX</i>	<i>SINGLE PROVISION</i>
<i>IC</i>	<i>THIRD PROVISION</i>

Table 2	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
<i>A</i>	<i>INCHES</i>
<i>L</i>	<i>MILLIMETERS</i>

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

FIG T
Section Parts

ALL (See Note Preceding MRC ABVK)*

AAJF D THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable ISAC from Table 1 below followed by the Reply Code from Table 2 below. (e.g., AAJF1ADL)*

Table 1

REPLY CODE

IZ

IE

IA

ID

IB

IX

IC

REPLY (0159)

ALL PROVISIONS

FIFTH PROVISION

FIRST PROVISION

FOURTH PROVISION

SECOND PROVISION

SINGLE PROVISION

THIRD PROVISION

Table 2

REPLY CODE

L

R

REPLY (AA38)

LEFT-HAND

RIGHT-HAND

ALL

ABKV J OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKVJAA1.000*; ABKVJLA25.4*; ABKVJAB0.990\$\$JAC1.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

REPLY (AC20)

FIIG T
Section Parts

A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

ABRY J LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY OBJECT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABRYJAA2.000*; ABRYJLA50.8*; ABRYJAB1.975\$\$JAC2.025*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

AMSF J ORIFICE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ORIFICE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AMSFJAA2.000*; AMSFJLA50.8*; AMSFJAB1.975\$\$JAC2.025*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

FIG T
Section Parts

ALL*

CCFK G HOSE/TUBE SIZE FOR WHICH DESIGNED

Definition: DESIGNATES THE SIZE OF HOSE OR TUBE FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the reply in clear text, entering the inside diameter for hose or the outside diameter for tube. (e.g., CCFKG3/4 IN. ID HOSE*; CCFKG1/2 IN. OD TUBE*)

FIIG T
Section Parts

SECTION: E

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED18310*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBN0000*; MATLDAL0000\$DBR0000*; MATLDAL0000\$DBR0000*)

ALL

CGJB	D	CONNECTING END THREAD LOCATION
------	---	--------------------------------

Definition: INDICATES THE LOCATION OF THE THREADS ON THE CONNECTING END OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGJBDABY*)

REPLY CODE
ABY
ABX

REPLY (AJ91)
EXTERNAL
INTERNAL

ALL

CCFL	J	CONNECTING END NOMINAL PIPE THREAD DIAMETER
------	---	---

Definition: THE NOMINAL PIPE LENGTH OF A STRAIGHT LINE WHICH PASSES THOROUGH THE CENTER OF THE THREADED SECTION OF THE CONNECTING END, AND TERMINATES AT THE CIRCUMFERENCE.

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CCFLJA0.375*; CCFLJL9.5*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL

CCFM	D	REVERSE FLOW PORT AREA AUTOMATIC CHANGE FEATURE
------	---	--

Definition: AN INDICATION OF WHETHER OR NOT A FEATURE IS INCLUDED FOR PERMITTING THE PORT AREA TO BE AUTOMATICALLY CHANGED WHEN FLOW IS REVERSED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCFMDC*)

REPLY CODE

B
C

REPLY (AA49)

INCLUDED
NOT INCLUDED

FIIG T
Section Parts

SECTION: F

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED61531*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$DBN0000*; MATLDBR0000\$DBN0000*)

ALL

ABPX	J	MATERIAL THICKNESS
------	---	--------------------

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF THE MATERIAL, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABPXJAA0.125*; ABPXJLA3.1*; ABPXJAB0.120\$\$JAC0.130*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	ADAV	J	OVERALL DIAMETER

Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADAVJAA3.500*; ADAVJLA88.9*; ADAVJAB3.475\$\$JAC3.525*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

AARX	J	INSIDE DIAMETER
------	---	-----------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA1.250*; AARXJLA31.8*; AARXJAB1.230\$\$JAC1.260*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
ALL*			

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA42.000*; ABHPJLA1066.8*; ABHPJAB41.750\$\$JAC42.250*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

ABMK J OVERALL WIDTH

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA4.500*; ABMKJLA114.3*; ABMKJAB4.475\$\$JAC4.525*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
ALL	ABSX	D	ATTACHMENT METHOD

Definition: THE MEANS USED TO ATTACH THE ITEM

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ABSXDCK*)

REPLY CODE
CK
AK
AX

REPLY (AB47)
ADHESIVE
BOLTED
SPRING CLIP

FIIG T
Section Parts

SECTION: G

APP

Key MRC Mode Code Requirements

ALL

NAME D ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED33328*)

ALL

MATL D MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDGS0000*; MATLDGS0000\$DPC0000*; MATLDGS0000\$DPC0000*)

ALL

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA3.470*; ABHPJLA88.1*; ABHPJAB3.450\$\$JAC3.490*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

FIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

AARX

J

INSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA2.180*; AARXJLA55.37*; AARXJAB2.160\$\$JAC2.200*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

AGWM

J

LARGEST OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE LARGEST DIAMETER OF AN ITEM, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value, excluding flange. (e.g., AGWMJAA2.750*; AGWMJLA69.8*; AGWMJAB2.740\$\$JAC2.760*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

ALL

CDPJ	D	OPEN END TYPE
------	---	---------------

Definition: INDICATES THE TYPE OF OPEN END PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDPJDABW*)

<u>REPLY CODE</u>	<u>REPLY (AK84)</u>
ABW	FLANGED
AAT	PLAIN
ABE	THREADED

NOTE FOR MRCS CDPK, AHTC, AGFF, AFQN, THDS, AND AAJF: IF REPLY CODE ABW IS ENTERED FOR MRC CDPJ, REPLY TO MRC CDPK. IF OPEN END IS CIRCULAR, REPLY TO MRC AHTC. IF OTHER THAN CIRCULAR, REPLY TO MRCS AGFF AND AFQN. IF REPLY CODE ABE IS ENTERED FOR MRC CDPJ, REPLY TO MRCS THDS AND AAJF.

ALL* (See Note Above)

CDPK	D	FLANGE SECURING HOLE
------	---	----------------------

Definition: AN INDICATION OF WHETHER OR NOT A FLANGE SECURING HOLE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code form the table below. (e.g., CDPKDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS AHYF, CDPL, AMBG, CDPN, AND CDPP: IF REPLY CODE B IS ENTERED FOR MRC CDPK, AND SECURING HOLES ARE UNTHREADED, REPLY TO MRCS AHYF, CDPL, AND AMBG. IF SECURING HOLES ARE THREADED, REPLY TO MRCS AHYF, CDPL, CDPN, AND CDPP.

ALL* (See Note Above)

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

AHYF	A	SECURING HOLE QUANTITY
------	---	------------------------

Definition: THE NUMBER OF HOLES PROVIDED FOR SECURING THE ITEM IN A FIXED POSITION.

Reply Instructions: Enter the quantity. (e.g., AHYFA6*)

ALL* (See Note Preceding MRC AHYF)

CDPL	G	SECURING HOLE SPACING
------	---	-----------------------

Definition: THE SPACING BETWEEN THE SECURING HOLES.

Reply Instructions: Enter the reply in clear text. (e.g., CDPLGEQUALLY SPACED ON 1.281 IN. BOLT CIRCLE*)

ALL* (See Note Preceding MRC AHYF)

AMBG	J	UNTHREADED SECURING HOLE DIAMETER
------	---	-----------------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN UNTHREADED SECURING HOLE, AND TERMINATES ON THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AMBGJAA0.094*; AMBGJLA2.4*; AMBGJAB0.092\$\$JAC0.096*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC AHYF)

CDPN	J	SECURING HOLE THREAD SIZE AND SERIES/TYPE DESIGNATOR
------	---	--

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER MEASUREMENT SCALE OF THE SECURING HOLE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the thread size.

(e.g., CDPNJNS3/8-18*)

REPLY CODE

SF
NP
NE
NF
NS

REPLY (AH06)

NPSF
NPT
UNEF
UNF
UNS

ALL* (See Note Preceding MRC AHYF)

CDPP	D	SECURING HOLE THREAD DIRECTION
------	---	--------------------------------

Definition: THE DIRECTION OF THE SECURING HOLE THREAD WHEN VIEWED AXIALLY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDPPDAAG*)

REPLY CODE

AAG
AAL

REPLY (AA38)

LEFT-HAND
RIGHT-HAND

ALL* (See Note Preceding MRC CDPK)

AHTC	J	FLANGE OUTSIDE DIAMETER
------	---	-------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AHTCJAA1.594*; AHTCJLA40.5*; AHTCJAB1.580\$JAC1.610*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 1</u>	
		<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
		A	INCHES
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC CDPK)

AGFF J FLANGE WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF A FLANGE, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AGFFJAA2.000*; AGFFJLA50.8*; AGFFJAB1.980\$\$JAC2.020*)

	<u>Table 1</u>	
	<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
	A	INCHES
	L	MILLIMETERS
	<u>Table 2</u>	
	<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
	A	NOMINAL
	B	MINIMUM
	C	MAXIMUM

ALL* (See Note Preceding MRC CDPK)

AFQN J FLANGE LENGTH

Definition: A MEASUREMENT OF THE LONGEST, DIMENSION OF A FLANGE, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AFQNJAA0.263*; AFQNJLA6.7*; AFQNJAB0.258\$\$JAC0.268*)

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC CDPK)

THDS	J	THREAD SIZE AND SERIES/TYPE DESIGNATOR
------	---	---

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the thread size.

(e.g., THDSJNC1 1/2-14*)

REPLY CODE

SF

NP

NC

NF

NS

REPLY (AH06)

NPSF

NPT

UNC

UNF

UNS

ALL* (See Note Preceding MRC CDPK)

AAJF	D	THREAD DIRECTION
------	---	------------------

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDL*)

REPLY CODE

REPLY (AA38)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		L	LEFT-HAND
		R	RIGHT-HAND

ALL

CDYG D CLOSED END SHAPE

Definition: THE PHYSICAL CONFIGURATION OF THE CLOSED END OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDYGDACA*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
ACA	CONCAVE
ACK	CONVEX
AFC	FLAT

ALL

CDPR D CLOSED END HOLE

Definition: AN INDICATION OF WHETHER OR NOT A HOLE IS INCLUDED IN THE CLOSED END.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDPRDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS ASXK, BDFM, CDPS, AND AKAG: IF REPLY CODE B IS ENTERED FOR MRC CDPR AND THE HOLES(S) IS UNTHREADED, REPLY TO MRCS ASXK AND BDFM. IF THREADED, REPLY TO MRCS ASXK, CDPS, AND AKAG.

ALL* (See Note Above)

ASXK A HOLE QUANTITY

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: THE NUMBER OF HOLES PROVIDED.

Reply Instructions: Enter the quantity. (e.g., ASXKA1*)

ALL* (See Note Preceding MRC ASXK)

BDFM J UNTHREADED HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN UNTHREADED HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BDFMJAA0.500*; BDFMJLA12.7*; BDFMJAB0.490\$\$JAC0.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ASXK)

CDPS J HOLE THREAD SIZE AND SERIES/TYPE
DESIGNATOR

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER MEASUREMENT SCALE, OF THE HOLE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the thread size.

(e.g., CDPSJNC1/2-24*)

REPLY CODE

SF

NP

NT

NC

REPLY (AH06)

NPSF

NPT

NPTF

UNC

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		NF	UNF
		NS	UNS

ALL* (See Note Preceding MRC ASXK)

AKAG D HOLE THREAD DIRECTION

Definition: THE DIRECTION OF THE HOLE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AKAGDL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
L	LEFT-HAND
R	RIGHT-HAND

ALL

CDPT D CLOSED END CIRCULAR RECESS

Definition: AN INDICATION OF WHETHER OR NOT A CLOSED END CIRCULAR RECESS(ES) IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDPTDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRC CDPW: IF REPLY CODE B IS ENTERED FOR MRC CDPT, ENTER THE REPLY TO MRC CDPW.

ALL* (See Note Above)

CDPW J RECESS MAXIMUM DIAMETER

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE LARGEST RECESS, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CDPWJA0.593*; CDPWJL15.0*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL*

AKYN	G	FURNISHED ITEMS AND QUANTITY
------	---	------------------------------

Definition: THE NAME AND NUMBER OF THOSE PARTS FURNISHED WITH THE ITEM OF SUPPLY THAT HAVE NOT BEEN SPECIFIED ELSEWHERE.

Reply Instructions: Enter the reply in clear text. (e.g., AKYNGBOWL SLEEVE, 2*)

Separate multiple replies with a comma. (e.g., AKYNGGASKET, 1, SLEEVE, 2*)

SECTION: H

APP

Key MRC Mode Code Requirements

ALL

NAME D ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED04859*)

ALL

MATL D MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDALC000*; MATLDALC000\$DST0000*; MATLDALC000\$DST0000*)

ALL

ACQW D INLET CONNECTION TYPE

Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF INLET CONNECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACQWDBF*)

REPLY CODE

BF
NN
BG

REPLY (AB76)

FLANGE
SILVER BRAZING
THREADED

NOTE FOR MRCS CCFS, ACRL, ACRM, ACRN, ACRT, AND CDPX: IF REPLY CODE BF IS ENTERED FOR MRC ACQW, REPLY TO MRCS CCFS, ACRL, ACRM, AND ACRN. IF REPLY CODE NN IS ENTERED FOR MRC ACQW, REPLY TO MRC ACRT. IF REPLY CODE BG IS ENTERED FOR MRC ACQW, REPLY TO MRC CDPX.

ALL* (See Note Above)

CCFS J INLET FLANGE INSIDE DIAMETER

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE INLET FLANGE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CCFSJAA1.500*; CCFSJLA38.1*; CCFSJAB1.490\$\$JAC1.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC CCFS)

ACRL A INLET BOLT HOLE QUANTITY

Definition: THE NUMBER OF INLET BOLT HOLES ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., ACRLA4*)

ALL* (See Note Preceding MRC CCFS)

ACRM J INLET BOLT HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN INLET BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRMJAA0.375*; ACRMJLA9.5*; ACRMJAB0.370\$\$JAC0.380*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Table 2

REPLY CODE

REPLY (AC20)

A

NOMINAL

B

MINIMUM

C

MAXIMUM

ALL* (See Note Preceding MRC CCFS)

ACRN J INLET BOLT CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN INLET BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACRNJAA2.000*; ACRNJLA50.8*; ACRNJAB1.980\$\$JAC2.020*)

Table 1

REPLY CODE

REPLY (AA05)

A

INCHES

L

MILLIMETERS

Table 2

REPLY CODE

REPLY (AC20)

A

NOMINAL

B

MINIMUM

C

MAXIMUM

ALL* (See Note Preceding MRC CCFS)

ACRT J INLET NOMINAL PIPE SIZE ACCOMMODATED

Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL DIAMETER OF THE PIPE THE INLET WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ACRTJA0.675*; ACRTJL17.1*)

REPLY CODE

REPLY (AA05)

A

INCHES

L

MILLIMETERS

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

ALL* (See Note Preceding MRC CCFS)

CDPX	J	INLET THREAD SIZE AND SERIES/TYPE DESIGNATOR
------	---	---

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER MEASUREMENT SCALE OF THE INLET.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the thread size.

(e.g., CDPXJNP1/2-14*)

REPLY CODE

NP
NF

REPLY (AK54)

NPT
UNF

ALL

ARTH	D	OUTLET CONNECTION TYPE
------	---	------------------------

Definition: A NARRATIVE DESCRIPTION OF THE TYPE OF OUTLET CONNECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARTHDBF*)

REPLY CODE

BF
NN
BG

REPLY (AB76)

FLANGE
SILVER BRAZING
THREADED

NOTE FOR MRCS CCGK, BHCT, BHCW, BHCS, CDPZ, AND CDQB: IF REPLY CODE BF IS ENTERED FOR MRC ARTH, REPLY TO MRCS CCGK, BHCT, BHCW, AND BHCS. IF REPLY CODE NN IS ENTERED FOR MRC ARTH, REPLY TO MRC CDPZ. IF REPLY CODE BG IS ENTERED FOR MRC ARTH, REPLY TO MRC CDQB.

ALL* (See Note Above)

CCGK	J	OUTLET FLANGE INSIDE DIAMETER
------	---	-------------------------------

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE OUTLET FLANGE, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CCGKJAA0.500*; CCGKJLA12.7*; CCGKJAB0.490\$\$JAC0.510*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC CCGK)

BHCT A OUTLET BOLT HOLE QUANTITY

Definition: THE NUMBER OF OUTLET BOLT HOLE(S) ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., BHCTA4*)

ALL* (See Note Preceding MRC CCGK)

BHCW J OUTLET BOLT HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN OUTLET BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHCWJAA0.375*; BHCWJLA9.5*; BHCWJAB0.370\$\$JAC0.380*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC CCGK)

BHCS J OUTLET BOLT CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN OUTLET BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BHCSJAA2.000*; BHCSJLA50.8*; BHCSJAB1.985\$\$JAC2.015*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC CCGK)

CDPZ J OUTLET NOMINAL PIPE SIZE

Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE NOMINAL DIAMETER OF THE OUTLET PIPE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CDPZJA0.675*; CDPZJL17.1*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

ALL* (See Note Preceding MRC CCGK)

CDQB J OUTLET THREAD SIZE AND SERIES/TYPE
DESIGNATOR

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND
NUMBER OF THREADS PER MEASUREMENT SCALE, OF THE OUTLET.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by
the thread size.

(e.g., CDQBJNP1/2-14*)

REPLY CODE
NP
NF

REPLY (AH06)
NPT
UNF

ALL*

CDQC D DRAIN HOLE CONNECTION TYPE

Definition: INDICATES THE TYPE OF DRAIN HOLE CONNECTION
PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g.,
CDQCDEB*)

REPLY CODE
EB
PB
NN
BG

REPLY (AB76)
DRILLED FLANGE
PLAIN FLANGE
SILVER BRAZING
THREADED

NOTE FOR MRCS CDQD, CDQF, CDQG, CDQH, AND ATGF: IF REPLY CODE EB IS
ENTERED FOR MRC CDQC, REPLY TO MRCS CDQD, CDQF, AND CDQG. IF REPLY
CODE PB IS ENTERED FOR MRC CDQC, REPLY TO MRC CDQH. IF REPLY CODE BG
IS ENTERED FOR MRC CDQC, REPLY TO MRC ATGF.

ALL* (See Note Above)

CDQD J DRAIN HOLE FLANGE BOLT CIRCLE DIAMETER

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE DRAIN HOLE FLANGE BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDQDJAA2.000*; CDQDJLA50.8*; CDQDJAB1.985\$\$JAC2.015*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC CDQD)

CDQF A DRAIN HOLE FLANGE BOLT HOLE QUANTITY

Definition: THE NUMBER OF DRAIN HOLE FLANGE BOLT HOLES PROVIDED.

Reply Instructions: Enter the quantity. (e.g., CDQFA4*)

ALL* (See Note Preceding MRC CDQD)

CDQG J DRAIN HOLE FLANGE BOLT HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A DRAIN HOLE FLANGE BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDQGJAA0.250*; CDQGJLA6.4*; CDQGJAB0.245\$\$JAC0.255*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC CDQD)

CDQH J DRAIN HOLE FLANGE OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A DRAIN HOLE FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDQHJAA3.000*; CDQHJLA76.2*; CDQHJAB2.975\$\$JAC3.025*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC CDQD)

ATGF D CONNECTION THREAD SERIES

Definition: A DESIGNATION INDICATING THE DIAMETER-PITCH COMBINATION AND THE NUMBER OF THREADS PER MEASUREMENT SCALE APPLIED TO A SERIES OF SPECIFIC DIAMETERS OF A THREADED CONNECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ATGFDNP*)

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
		SF	NPSF
		NP	NPT
		UN	UN
		NF	UNF

ALL

CGMG J DRAIN HOLE CONNECTION NOMINAL PIPE SIZE

Definition: DESIGNATES THE SIZE OF THE DIAMETER OF THE DRAIN HOLE CONNECTION PIPE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGMGJA0.198*; CGMGJL5.0*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

CCZS D FLOW TYPE

Definition: INDICATES THE TYPE OF FLOW PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCZSDAAY*)

<u>REPLY CODE</u>	<u>REPLY (AK04)</u>
AAZ	ANGULAR
AAZ	HORIZONTAL
ABA	VERTICAL

NOTE FOR MRCS ADNK, CFNQ, CFNR, CFNS, CDQJ, CDQL, CDQM, AND AGQA: IF REPLY CODE AAY IS ENTERED FOR MRC CCZS, REPLY TO MRCS ADNK, CFNQ, CFNR, AND CFNS. IF REPLY CODE AAZ IS ENTERED FOR MRC CCZS, REPLY TO MRCS CDQJ AND CDQL. IF REPLY CODE ABA IS ENTERED FOR MRC CCZS, REPLY TO MRCS ADNK, CDQJ, CDQM, AND AGQA.

ALL* (See Note Above)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	ADNK	D	FLOW DIRECTION
Direction: THE DIRECTION IN WHICH THE FLUID IS PASSED THROUGH THE ITEM.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADNKDH*)			
		<u>REPLY CODE</u>	<u>REPLY (AC50)</u>
		H	DOWN
		J	UP

ALL* (See Note Preceding MRC ADNK)

CFNQ J DISTANCE BETWEEN INLET CENTERLINE AND
OUTLET FACE

Definition: THE DISTANCE BETWEEN THE CENTERLINE OF THE INLET AND THE FACE OF THE OUTLET.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CFNQJAA3.500*; CFNQJLA88.9*; CFNQJAB3.475\$\$JAC3.525*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC ADNK)

CFNR J DISTANCE BETWEEN OUTLET CENTERLINE AND
INLET FACE

Definition: THE DISTANCE BETWEEN THE CENTERLINE OF THE OUTLET AND THE FACE OF THE INLET.

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CFNRJAA5.750*; CFNRJLA146.1*; CFNRJAB5.725\$\$JAC5.775*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC ADNK)

CFNS	J	DISTANCE BETWEEN HORIZONTAL CONNECTION CENTERLINE AND DRAIN CONNECTION.
------	---	--

Definition: THE DISTANCE BETWEEN THE CENTERLINE OF THE HORIZONTAL CONNECTION AND THE BOTTOM OF THE DRAIN CONNECTION.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CFNSJAA8.000*; CFNSJLA208.2*; CFNSJAB7.975\$\$JAC8.025*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC ADNK)

CDQJ	J	DISTANCE BETWEEN INLET FACE AND OUTLET
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FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

FACE CONNECTIONS

Definition: THE DISTANCE BETWEEN INLET FACE AND OUTLET FACE CONNECTIONS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDQJAA16.375*; CDQJLA415.9*; CDQJAB16.250\$\$JAC16.500*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ADNK)

CDQL	J	DISTANCE BETWEEN INLET AND OUTLET CONNECTION AND DRAIN CONNECTION FACE
------	---	---

Definition: THE DISTANCE BETWEEN THE CENTERLINE OF INLET AND OUTLET CONNECTIONS AND FACE OF DRAIN CONNECTION.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDQLJAA17.250*; CDQLJLA435.2*; CDQLJAB17.125\$\$JAC17.375*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

ALL* (See Note Preceding MRC ADNK)

CDQM J DISTANCE BETWEEN DRAIN CONNECTION
CENTERLINE AND OUTLET CONNECTION FACE

Definition: THE DISTANCE BETWEEN THE CENTERLINE OF DRAIN
CONNECTION AND FACE OF OUTLET CONNECTION.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below,
followed by the numeric value. (e.g., CDQMJAA3.875*; CDQMJLA98.4*;
CDQMJAB3.850\$\$JAC3.900*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ADNK)

AGQA J LARGEST DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH
THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT
THE LARGEST CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below,
followed by the numeric value. (e.g., AGQAJAA13.125*; AGQAJLA333.4*;
AGQAJAB13.000\$\$JAC13.250*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

REPLY (AC20)

NOMINAL

MINIMUM

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

C	MAXIMUM
---	---------

ALL

BGST J PRESSURE RATING

Definition: THE PRESSURE AT WHICH THE ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BGSTJFBA125.0*; BGSTJEYA8788750.0*; BGSTJFBB115.0\$\$JFBC135.0*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
EY	KILOGRAMS PER SQUARE CENTIMETER
FB	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL*

AKYN G FURNISHED ITEMS AND QUANTITY

Definition: THE NAME AND NUMBER OF THOSE PARTS FURNISHED WITH THE ITEM OF SUPPLY THAT HAVE NOT BEEN SPECIFIED ELSEWHERE.

Reply Instructions: Enter the reply in clear text. (e.g., AKYNGDRAIN VALVE 1*)

Separate multiple replies with a comma. (e.g., AKYNGDRAIN COCK, 1, GASKET, 2*)

ALL

CFNN D SERVICE TYPE FOR WHICH DESIGNED

Definition: INDICATES THE SERVICE TYPE FOR WHICH THE ITEM IS DESIGNED.

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 6. (e.g., CFNNDAAACE*; CFNNDAAACE\$\$DAACF*)

ALL*

CFNP	A	SELF-CONTAINED BAFFLE QUANTITY
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Definition: THE NUMBER OF SELF-CONTAINED BAFFLES PROVIDED.

Reply Instructions: Enter the quantity. (e.g., CFNPA3*)

FIIG T
Section Parts

SECTION: J

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED11440*)

ALL

MATL	D	MATERIAL
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Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$DBN0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDANC000*; SURFDANC000\$DCAR000*)

ALL

ARQS	D	CONSTRUCTION
------	---	--------------

Definition: THE STRUCTURAL CHARACTERISTIC OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARQSDABD*)

REPLY CODE

ABD

ABR

REPLY (AL59)

ONE-PIECE

SPLIT

FIIG T
Section Parts

APP	Key	MRC	Mode Code	Requirements
-----	-----	-----	-----------	--------------

ALL

ABSX	D	ATTACHMENT METHOD
------	---	-------------------

Definition: THE MEANS USED TO ATTACH THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ABSXDBT*)

<u>REPLY CODE</u>	<u>REPLY (AB47)</u>
PR	SAWTOOTH TENSION
BT	SETSCREWS
PS	SPRING TENSION

ALL

ADAV	J	OVERALL DIAMETER
------	---	------------------

Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADAVJAA3.500*; ADAVJLA88.9*; ADAVJAB3.475\$\$JAC3.525*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

AARX	J	INSIDE DIAMETER
------	---	-----------------

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA1.250*; AARXJLA31.8*; AARXJAB1.240\$\$JAC1.260*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABKW	J	OVERALL HEIGHT
------	---	----------------

Definition: THE DISTANCE MEASURED IN A STRAIGHT LINE FROM THE BOTTOM TO THE TOP, OF AN ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKWJAA1.250*; ABKWJLA31.8*; ABKWJAB1.240\$\$JAC1.260*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

SECTION: K

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED13471*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDFE0000*; MATLDFE0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDCD0000*; SURFDCD0000\$DCR0000*)

ALL

ABWV	J	SHAFT DIAMETER
------	---	----------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A SHAFT, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABWVJAA4.2508; ABWVJLA107.9*; ABWVJAB4.225\$\$JAC4.275*)

Table 1

REPLY CODE

A

REPLY (AA05)

INCHES

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		L	MILLIMETERS
		<u>Table 2</u> <u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value for full telescopic extension. (e.g., ABHPJAA42.000* ABHPJLA1066.8*; ABHPJAB41.750\$\$JAC42.250*)

<u>Table 1</u> <u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u> <u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

AAPN A SECTION QUANTITY

Definition: THE NUMBER OF INDIVIDUAL ELEMENTS.

Reply Instructions: Enter the quantity.(e.g., AAPNA3*)

ALL

CJLX D BOX TYPE

Definition: INDICATES THE TYPE OF BOX PROVIDED.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
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Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CJLXDBFK*)

<u>REPLY CODE</u>
BFK
BNK

<u>REPLY (AK95)</u>
SCREW
SLIP

ALL

CFNW	D	UPPER SECTION HEAD SHAPE
------	---	--------------------------

Definition: THE PHYSICAL CONFIGURATION OF THE UPPER SECTION HEAD.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFNWDAPL*)

<u>REPLY CODE</u>
APL
ASL

<u>REPLY (AD07)</u>
ROUND
SQUARE

ALL

CFNX	D	UPPER SECTION HEAD THREAD PROVISION
------	---	--

Definition: AN INDICATION OF WHETHER OR NOT THE UPPER SECTION HEAD IS THREADED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFNXDB*)

<u>REPLY CODE</u>
B
C

<u>REPLY (AE00)</u>
THREADED
UNTHREADED

ALL

CFNY	D	EXTENSION SECTION
------	---	-------------------

Definition: AN INDICATION OF WHETHER OR NOT AN EXTENSION SECTION IS INCLUDED.

FIIG T
Section Parts

APP	Key	MRC	Mode Code	Requirements
-----	-----	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFNYDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS CFNZ AND CFPB: IF REPLY CODE B IS ENTERED FOR MRC CFNY, REPLY TO MRCS CFNZ AND CFPB.

ALL* (See Note Above)

CFNZ	D	EXTENSION SECTION TYPE
------	---	------------------------

Definition: INDICATES THE TYPE OF EXTENSION SECTION PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFNZDBFK*)

<u>REPLY CODE</u>	<u>REPLY (AK95)</u>
BFK	SCREW
BNK	SLIP

ALL* (See Note Preceding MRC CFNZ)

CFPB	J	EXTENSION SECTION LENGTH
------	---	--------------------------

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE EXTENSION SECTION, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CFPBJAA24.000*; CFPBJLA609.6*; CFPBJAB23.875\$\$JAC24.125*)

<u>Table 1</u>	<u>REPLY (AA05)</u>
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	<u>REPLY (AC20)</u>
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	C		MAXIMUM

ALL

CRPS L BASE STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE BASE.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group B. (e.g., CRPSLB2*)

ALL

CFPF D ADDITIONAL BASE FOR LOWER SECTION

Definition: AN INDICATION OF WHETHER OR NOT AN ADDITIONAL BASE FOR THE LOWER SECTION IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFPFDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS AJUY, AGEU, AND AJCZ: IF REPLY CODE B IS ENTERED FOR MRC CFPF, REPLY TO MRCS AJUY, AGEU, AND AJCZ.

ALL* (See Note Above)

AJUY L ADDITIONAL BASE STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ADDITIONAL BASE.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group B. (e.g., AJUYLB3*)

ALL* (See Note Preceding MRC AJUY)

AGEU J BASE DIAMETER

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR BASE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AGEUJAA14.500*; AGEUJLA368.3*; AGUEJAB14.450\$\$JAC14.550*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC AJUY)

AJCZ	J	BASE HEIGHT
------	---	-------------

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF A BASE, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJCZJAA9.500*; AJCZJLA241.3*; AJCZJAB9.400\$\$JAC9.600*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	CFPG	D	LID

Definition: AN INDICATION OF WHETHER OR NOT A LID IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFPGDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS CFPH, CFPJ, AND BDBN: IF REPLY CODE B IS ENTERED FOR MRC CFPG, REPLY TO MRCS CFPH, CFPJ, AND BDBN.

ALL* (See Note Above)

CFPH	D	LID TYPE
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Definition: INDICATES THE TYPE OF LID PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFPHDCB*)

<u>REPLY CODE</u>	<u>REPLY (AD99)</u>
CB	LOCK
CA	PLUG
CC	THREAD

ALL* (See Note Preceding MRC CFPH)

CFPJ	J	LID UPPER SECTION DIAMETER
------	---	----------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE LID, UPPER SECTION AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CFPJJAA4.500*; CFPJLA114.3*; CFPJJAB4.475\$\$JAC4.525*)

<u>Table 1</u>	<u>REPLY (AA05)</u>
<u>REPLY CODE</u>	<u>INCHES</u>
A	

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		L	MILLIMETERS
		<u>Table 2</u>	
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC CFPH)

BDBN G MARKINGS

Definition: AN INDICATION OF THE MARKINGS ON THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., BDBNGWATER*)

ALL

CFPK D ROD

Definition: AN INDICATION OF WHETHER OR NOT A ROD IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFPKDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIIG T
Section Parts

SECTION: L

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g. NAMED21141*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDSTB000*; MATLDSTB000\$DZN0000*; MATLDSTB000\$DZN0000*)

ALL

ACSV	J	TUBE OUTSIDE DIAMETER FOR WHICH DESIGNED
------	---	--

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBE FOR WHICH DESIGNED, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACSVJAA0.625*; ACSVJLA15.9*; ACSVJAB0.615\$\$JAC0.635*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

AAGT	J	WALL THICKNESS
------	---	----------------

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF THE WALL, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAGTJAA0.018*; AAGTJLA0.5*; AAGTJAB0.016\$\$JAC0.020*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABRY	J	LENGTH
------	---	--------

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF ANY OBJECT, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABRYJAA24.000*; ABRYJLA609.6*; ABRYJAB23.750\$\$JAC24.250*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIG T
Section Parts

FIIG T
Section Parts

SECTION: M

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED17643*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDSTB000*; MATLDST0000\$\$DSTB000*; MATLDST0000\$DSTB000*)

ALL

AQXP	A	INLET CONNECTION QUANTITY
------	---	---------------------------

Definition: THE NUMBER OF INLET CONNECTIONS ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., AQXPA6*)

ALL

CFPL	J	INLET CONNECTION THREAD SIZE AND SERIES/TYPE DESIGNATOR AND LOCATION
------	---	---

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER MEASUREMENT SCALE OF THE INLET CONNECTION, AND THE THREAD LOCATION.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the thread size. Enter a reply for each location using AND (\$\$) Coding. (e.g., CFPLJANABY2-1/2-11; CFPLJNPABX1/4-18\$\$ JNPABY1/2-14*)*

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 1

REPLY CODE

AN

NP

UN

NF

REPLY (AH06)

ANPT

NPT

UN

UNF

Table 2

REPLY CODE

ABY

ABX

REPLY (AJ91)

EXTERNAL

INTERNAL

ALL

CCXJ	D	INLET VALVE
------	---	-------------

Definition: AN INDICATION OF WHETHER OR NOT AN INLET VALVE(S) IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CCXJDB*)

REPLY CODE

C

B

REPLY (AB22)

NOT PROVIDED

PROVIDED

ALL

ARTG	A	OUTLET CONNECTION QUANTITY
------	---	----------------------------

Definition: THE NUMBER OF OUTLET CONNECTIONS ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., ARTGA6*)

ALL

CFPM	J	OUTLET CONNECTION THREAD SIZE AND SERIES/TYPE DESIGNATOR AND LOCATION
------	---	--

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER MEASUREMENT SCALE OF THE OUTLET CONNECTION, AND THE THREAD LOCATION.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the thread size. Enter a reply for each location using AND (\$\$) Coding. (e.g., CFPMJANABY1-11*; CFPMJNFABX1/4-28\$\$JNFABY5/16-24*)

Table 1

REPLY CODE

AN
NP
UN
NF

REPLY (AH06)

ANPT
NPT
UN
UNF

Table 2

REPLY CODE

ABY
ABX

REPLY (AJ91)

EXTERNAL
INTERNAL

ALL

CFPN D OUTLET VALVE

Definition: AN INDICATION OF WHETHER OR NOT AN OUTLET VALVE(S) IS PROVIDED.

Reply Instruction: Enter the applicable Reply Code from the table below. (e.g., CFPNDB*)

REPLY CODE

C
B

REPLY (AB22)

NOT PROVIDED
PROVIDED

ALL*

BJDW J MAXIMUM OPERATING PRESSURE

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

Definition: THE MAXIMUM PRESSURE AT WHICH AN ITEM IS DESIGNED TO OPERATE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., BJDWJDQ25.0*; BJDWJCR1757750.0*)

<u>REPLY CODE</u>	<u>REPLY (AJ20)</u>
CR	KILOGRAMS PER SQUARE CENTIMETER
DQ	POUNDS PER SQUARE INCH

ALL*

CFPP D MAXIMUM PRESSURE INDICATING DEVICE TYPE

Definition: INDICATES THE TYPE OF DEVICE INCLUDED WITH THE ITEM FOR INDICATING WHEN THE MAXIMUM PRESSURE LIMIT OF THE ITEM HAS BEEN REACHED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFPPDAD*)

<u>REPLY CODE</u>	<u>REPLY (AG15)</u>
AD	GAGE
AE	RELIEF VALVE

ALL*

AFHG D MOUNTING FACILITY TYPE

Definition: INDICATES THE TYPE OF FACILITY PROVIDED PERMITTING ATTACHMENT OF THE ITEM TO A SURFACE OR TO ANOTHER ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFHGDAX*)

<u>REPLY CODE</u>	<u>REPLY (AE11)</u>
AA	BRACKET
AX	LEG

MB

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
TMQY	J		FURNISHED ITEMS AND QUANTITY

Definition: THE NAME AND NUMBER OF THOSE PARTS FURNISHED WITH THE ITEM OF SUPPLY THAT HAVE NOT BEEN SPECIFIED ELSEWHERE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the quantity. (e.g., TMQYJBHH1*; TMQYJBHH4\$\$JBHJ3*)

REPLY CODE

BHH
AZA
AFB
BHJ

REPLY (AB28)

ACCUMULATOR
FILTER
RESTRICTOR
VALVE

FIIG T
Section Parts

SECTION: N

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED13593*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below.
(APGFDBXH*)

REPLY CODE

BXG

BXH

REPLY (AK54)

DUAL FOOT

SINGLE FOOT

NOTE FOR MRC ABHP: IF REPLY CODE BXG IS ENTERED FOR MRC APGF, REPLY TO MRC ABHP.

ALL* (See Note Above)

ABHP	J	OVERALL LENGTH
------	---	----------------

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA6.000*; ABHPJLA152.4*; ABHPJAB5.975\$\$JAC6.025*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL

AQPP D SHANK TYPE

Definition: INDICATES THE TYPE OF SHANK.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQPPDAK*)

<u>REPLY CODE</u>	<u>REPLY (AH09)</u>
EZ	SERRATED
AK	THREADED

NOTE FOR MRCS AJER, APJC, AJYN, AND AJYP: IF REPLY CODE EZ IS ENTERED FOR MRC AQPP, REPLY TO MRC AJER. IF REPLY CODE AK IS ENTERED FOR MRC AQPP, REPLY TO MRCS APJC, AJYN, AND AJYP.

ALL* (See Note Above)

AJER J HOSE INSIDE DIAMETER FOR WHICH
DESIGNED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE HOSE FOR WHICH THE ITEM IS DESIGNED, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJERJAA0.375*; AJERJLA9.5*; AJERJAB0.365\$\$JAC0.385*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		B	MINIMUM
		C	MAXIMUM

ALL* (See Note Preceding MRC AJER)

APJC D THREAD LOCATION

Definition: INDICATES THE LOCATION OF THE THREAD ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APJCDABY*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
ABY	EXTERNAL
ABX	INTERNAL

ALL* (See Note Preceding MRC AJER)

AJYN J SCREW THREAD DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A COAXIAL CYLINDER WHICH WOULD BOUND THE CREST OF AN EXTERNAL THREAD OR THE ROOT OF AN INTERNAL THREAD.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJYNJAA0.250*; AJYNJLA6.4*; AJYNJAB0.248\$\$JAC0.252*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC AJER)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	AJYP	D	SCREW THREAD SERIES DESIGNATOR

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AJYPDNP*)

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
NP	NPT
NF	UNF
NS	UNS (National Special)

ALL

CFPQ	D	SPECIAL DEFLATOR
------	---	------------------

Definition: AN INDICATION OF WHETHER OR NOT A SPECIAL DEFLATOR IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFPQDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL

CFPR	D	HOLDING CLIP
------	---	--------------

Definition: AN INDICATION OF WHETHER OR NOT A HOLDING CLIP IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFPRDB*)

<u>REPLY CODE</u>	<u>REPLY (AH49)</u>
B	INCLUDED
C	NOT INCLUDED

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

SECTION: STANDARD

APP

Key MRC Mode Code Requirements

ALL*

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

ALL*

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321\$\$JB5556A-663654*;

TESTJAA2345-654321\$JB55566-663654*)

REPLY
CODE

REPLY (AC28)

A

SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)

B

STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

		C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)
--	--	---	---

ALL*

SPCL	G	SPECIAL TEST FEATURES	
------	---	-----------------------	--

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL*

ZZZK	J	SPECIFICATION/STANDARD DATA	
------	---	-----------------------------	--

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103*)

FIIG T
Section Parts

APP

Key MRC Mode Code Requirements

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STANDARD/SPECIFICATION
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 7, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$JSTA*; ZZZTJTY1\$JSTA*)

ALL*

ZZZW G DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL*

ZZZX	G	DEPARTURE FROM CITED DESIGNATOR
------	---	---------------------------------

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL*

ZZZY	G	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS
------	---	--

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL*

CRTL	A	CRITICALITY CODE JUSTIFICATION
------	---	--------------------------------

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL* (See Note Above)

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

PRPY	A	PROPRIETARY CHARACTERISTICS
------	---	-----------------------------

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)

ALL*

ELRN	G	EXTRA LONG REFERENCE NUMBER
------	---	-----------------------------

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL*

ELCD	D	EXTRA LONG CHARACTERISTIC DESCRIPTION
------	---	---------------------------------------

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)

REPLY
CODE

REPLY (AN58)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD

FIIG T
Section Parts

SECTION: SUPPTECH

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

CBME	J	CUBIC MEASURE
------	---	---------------

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CBMEJCF5.500*; CBMEJCM0.16*)

REPLY CODE

CF
CM

REPLY (AN76)

CUBIC FEET
CUBIC METERS

ALL

PRMT	D	PRECIOUS MATERIAL
------	---	-------------------

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., PRMTDAGA000*; PRMTDAUA000\$\$DAGA000*; PRMTDAGA000\$DAUA000*)

REPLY CODE

AUA000
IRA000
AZA000
PDA000
PTA000
RHA000
RTA000
AGA000

REPLY (MA01)

GOLD
IRIDIUM
OSMIUM
PALLADIUM
PLATINUM
RHODIUM
RUTHENIUM
SILVER

ALL

PMWT	J	PRECIOUS MATERIAL AND WEIGHT
------	---	------------------------------

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter the multiple replies in Table 1 sequence. (e.g., PMWTJPTA000R0.780*; PMWTJPTA000F0.025*; PMWTJAUA000F0.500\$\$JAGA000R0.780*)

Table 1

REPLY CODE

AUA000
IRA000
AZA000
PDA000
PTA000
RHA000
RTA000
AGA000

REPLY (MA01)

GOLD
IRIDIUM
OSMIUM
PALLADIUM
PLATINUM
RHODIUM
RUTHENIUM
SILVER

Table 2

REPLY CODE

E
R
F

REPLY (AG14)

GRAINS, TROY
GRAMS
OUNCES, TROY

ALL

PMLC	J	PRECIOUS MATERIAL AND LOCATION
------	---	--------------------------------

Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the location in clear text. (e.g., PMLCJAUA000TERMINALS*; PMLCJAUA000TERMINALS\$\$JAGA000INTERNAL SURFACES*; PMLCJAGA000TERMINALS\$JAUA000INTERNAL SURFACES*)

REPLY CODE

AUA000
IRA000
AZA000
PDA000
PTA000
RHA000
RTA000
AGA000

REPLY (MA01)

GOLD
IRIDIUM
OSMIUM
PALLADIUM
PLATINUM
RHODIUM
RUTHENIUM
SILVER

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

SUPP	G	SUPPLEMENTARY FEATURES
------	---	------------------------

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

ALL

ZZZP	J	PURCHASE DESCRIPTION IDENTIFICATION
------	---	-------------------------------------

Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.

Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of the document.

(e.g., ZZZPJ81337-30624A*)

ALL

AGAV	G	END ITEM IDENTIFICATION
------	---	-------------------------

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the reply in clear test. (e.g.,

AGAVG3930-00-000-0000*;

AGAVGFORKLIFT TRUCK, SMITH CORP, MODEL 12, TYPE A*)

ALL

ZZZV	G	FSC APPLICATION DATA
------	---	----------------------

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT*)

ALL

CXC	Y	G	PART NAME ASSIGNED BY CONTROLLING AGENCY
-----	---	---	--

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXC YGLINE PROCESSOR CONTROL BOARD*)

ALL

HZR	D	HAZARDOUS SUBSTANCES
-----	---	----------------------

Definition: THE SUBSTANCES AND/OR MATERIALS CONTAINED IN THE ITEM THAT HAVE BEEN IDENTIFIED AS HAZARDOUS OR ENVIRONMENTALLY DAMAGING BY THE ENVIRONMENTAL PROTECTION AGENCY OR OTHER AUTHORIZED GOVERNMENT AGENCY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., HZRDDHAZ008*; HZRDDHAZ008\$\$DHAZ011*)

REPLY CODE

HAZ008
HAZ011
HAZ012
HAZ092
HAZ252
HAZ303
HAZ052

REPLY (HZ00)

CADMIUM
CHROMIUM
COPPER
MAGNESIUM
NICKEL
SILVER
ZINC

FIG T
Section Parts

FIG T
Section Parts

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Reply Tables

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Table 1 - MATERIALS
MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL1548	ALUMINUM ALLOY, AMS 4212
AL1954	ALUMINUM ALLOY, MIL-A-21180, A356, CLASS 1
AL0293	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T6
AL0332	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T3
AL0542	ALUMINUM ALLOY, QQ-A-268-CANCELED
	Aluminum Alloy, QQ-A-268, Temper T6-CANCELED (use Reply Code AL0542)
ALA000	ALUMINUM BRONZE
AAAAAA	ANY ACCEPTABLE (use for MRC ANNQ only)
BC0000	BERYLLIUM COPPER
BR0000	BRASS
BR0001	BRASS, AMS 4610
	Brass, Cast (use Reply Code BR0000)
	Brass, Forged (use Reply Code BR0000)
BN0000	BRONZE
BN0014	BRONZE, ASTM B61
	Bronze, Porous (use Reply Code BN0000)
	Bronze, Powered (use Reply Code BN0000)
BN0004	BRONZE, QQ-B-750, COMP A
	Cast Aluminum (use Reply Code AL0000)
CSF000	CELLULOSE ESTER
CJC000	CHINA
STAAC0	CHROME-STEEL
CU0000	COPPER
CK0459	COPPER ALLOY, MIL-C-15726, COMP 70-30, HARD
KN0000	COPPER NICKEL ALLOY
CC0000	COTTON
FT0000	FELT
GS0000	GLASS
MEF000	GUNMETAL
FE0000	IRON
FE0171	IRON, ASTM A48, CLASS 30
FE0231	IRON, ASTM A278, CLASS 30
FEA000	IRON, CAST
FE0063	IRON, CAST, ASTM A126, CLASS B
FEC000	IRON, MALLEABLE
PBD000	LEAD ALLOY
MG0000	MAGNESIUM
	Metal, Corrosion Resisting (use Reply Code STB000)
MEAK00	METAL, POWERED
MAD000	MOLYBDENUM, CHROMIUM
NF0000	NICKEL

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
NC0000	NICKEL COPPER ALLOY (monel)
NC0003	NICKEL-COPPER ALLOY, QQ-N-281, CLASS A
PC0000	PLASTIC
PCAA00	PLASTIC, PHENOL-FORMALDEHYDE (BAKELITE)
PCAA00	PLASTIC, POLYCARBONATE
PCAH00	PLASTIC, POLYTETRAFLUOROETHYLENE
PCAK00	PLASTIC, POLYVINYL CHLORIDE
PL0000	POLYAMIDE NYLON
RC0000	RUBBER
RCC000	RUBBER, SYNTHETIC
	Semi-Steel (use Reply Code ST0000)
ST0000	STEEL
ST2016	STEEL, AMS 5640
ST2138	STEEL, ASTM A105, GRADE 2
ST2044	STEEL, ASTM A216, GRANDE WCB
	Steel, Cadmium Plated (use Reply Code ST0000)
	Steel, Cast (use Reply Code ST0000)
STAX00	STEEL, CHROME MOLYBDENUM
STB000	STEEL, CORROSION RESISTING
ST1617	STEEL, FED STD 66, AISI 304/SAE 30304
ST1621	STEEL, FED STD 66, AISI 316/SAE 30316
	Steel, Forged (use Reply Code ST0000)
ST2209	STEEL, MIL-S-15083, GRADE B
ST1647	STEEL, QQ-S-763, CLASS 303
ST2369	STEEL, QQ-S-763, CLASS 321, COND A
ST1660	STEEL, QQ-S-763, CLASS 410
ST3156	STEEL, QQ-S-763, CLASS 440C, COND A
ST1859	STEEL, QQ-S-764, TYPE 303, COND A-CANCELED
	Steel, Stainless (use Reply Code STB000)
	Steel, Terne Plate (use Reply Code ST0000)
TT0128	TITANIUM ALLOY, AMS4965
TT0163	TITANIUM ALLOY, AMS4966
ZN0000	ZINC

Table 2 - SURFACE TREATMENTS
SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ECG000	ACID ETCH
AN0000	ANODIZED
	Anodized Aluminum (use Reply Code AN0000)
AN0004	ANODIZED, MIL-A-8625, TYPE 2
BA0000	BLACK OXIDE
CD0000	CADMIUM
CD0001	CADMIUM, AMS 2400
	Cadmium Plated (use Reply Code CD0000)
CH0000	CHROME (Iridite)

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
CHC000	CHROME PLATED
CR0000	CHROMIUM
	Chromium Plated (use Reply Code CR0000)
EN0000	ENAMEL
	Enamel, Black (use Reply Code EN0000)
	Enameled (use Reply Code EN0000)
ECH000	ETCH, ELECTROCHEMICAL
FME000	FILM, DICHROMATE
RR0000	IRIDIUM
LQ0000	LACQUER
LQS000	LACQUER, DULL
NF0000	NICKEL
	Nickel Plated (use Reply Code NF0000)
PN0000	PAINTED
PS0000	PASSIVATED
PS0003	PASSIVATED, MIL-S-5002
PH0000	PHOSPHATE
	Phosphate Coated (use Reply Code PH0000)
AGE000	SILVER PLATED
TF0000	TAR
SNF000	TIN PLATED
ZNA000	ZINC CHROMATE
ZNS000	ZINC COATED

Table 3 - DESIGN TYPES
DESIGN TYPES

<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
DMY	BALL FLOAT
CJW	BUCKET
DMZ	COMBINATION FLOAT/THERMOSTATIC
AZZ	CONTINUOUS FLOW
ADX	FLOAT (includes ball float)
BLK	INVERTED
DNA	INVERTED BUCKET
DNB	INVERTED BUCKET W/AUTOMATIC BY-PASS
DNC	NONTHERMOSTATIC
DND	OPEN BUCKET, INVERTED BUCKET
DNE	PISTON
DNG	PULSATING CONTINUOUS FLOW
DNH	PULSATING CONTINUOUS FLOW
DNF	PULSATING (includes impulse)
DNJ	RADIATOR
DNK	THERMOSTATIC

Table 4 - INLET/OUTLET CONNECTION TYPES
INLET/OUTLET CONNECTION TYPES

<u>REPLY CODE</u>	<u>REPLY (AB76)</u>
AN	BUTT WELD
MK	FEMALE BRAZING NIPPLE
ML	FEMALE IRON PIPE
BJ	FLANGED
MM	GROUND JOINT FEMALE BRAZING TAILPIECE W/UNION NUT
MN	GROUND JOINT FEMALE TAILPIECE W/UNION NUT
MF	GROUND JOINT TAILPIECE W/UNION NUT
MP	MALE BRAZING NIPPLE
MQ	MALE IRON PIPE
MR	SOCKET WELDING
MS	UNION END

Table 5 - END TYPES
END TYPES

<u>REPLY CODE</u>	<u>REPLY (AB76)</u>
BW	FLARE TUBE
MT	GASKET SEAL
MW	REGULAR FLARE
CS	THREADED FEMALE
MX	THREADED FEMALE, COMPRESSION
MY	THREADED FEMALE, GASKET SEAL
MZ	THREADED FEMALE, INVERTED FLARE
NA	THREADED FEMALE TUBE
CT	THREADED MALE
NB	THREADED MALE, BULKHEAD
NC	THREADED MALE, COMPRESSION
ND	THREADED MALE, FLARELESS TUBE
NE	THREADED MALE, GASKET SEAL
NF	THREADED MALE, REGULAR FLARE
NG	THREADED MALE, TAPERED PIPE
NH	THREADED MALE TUBE
NJ	UNTHREADED FEMALE

Table 6 - SERVICE FOR WHICH DESIGNED
SERVICE FOR WHICH DESIGNED

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AABT	AIR MOISTURE
AABW	COMPRESSED AIR MOISTURE SEPARATION
AABX	METHYL CHLORIDE
AABY	REFRIGERANT
AABZ	SIREN STEAM

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AACA	STEAM MOISTURE
AACB	STEAM SEPARATOR
AACC	STEAM WHISTLE
AACD	WATER SEPARATION IN AN AIR DUCT LINE
AACE	10 TON REFRIGERANT
AACF	30 TON REFRIGERANT
AACG	50 TON REFRIGERANT

Table 7 - NONDEFINITIVE SPEC/STD DATA
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE

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APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

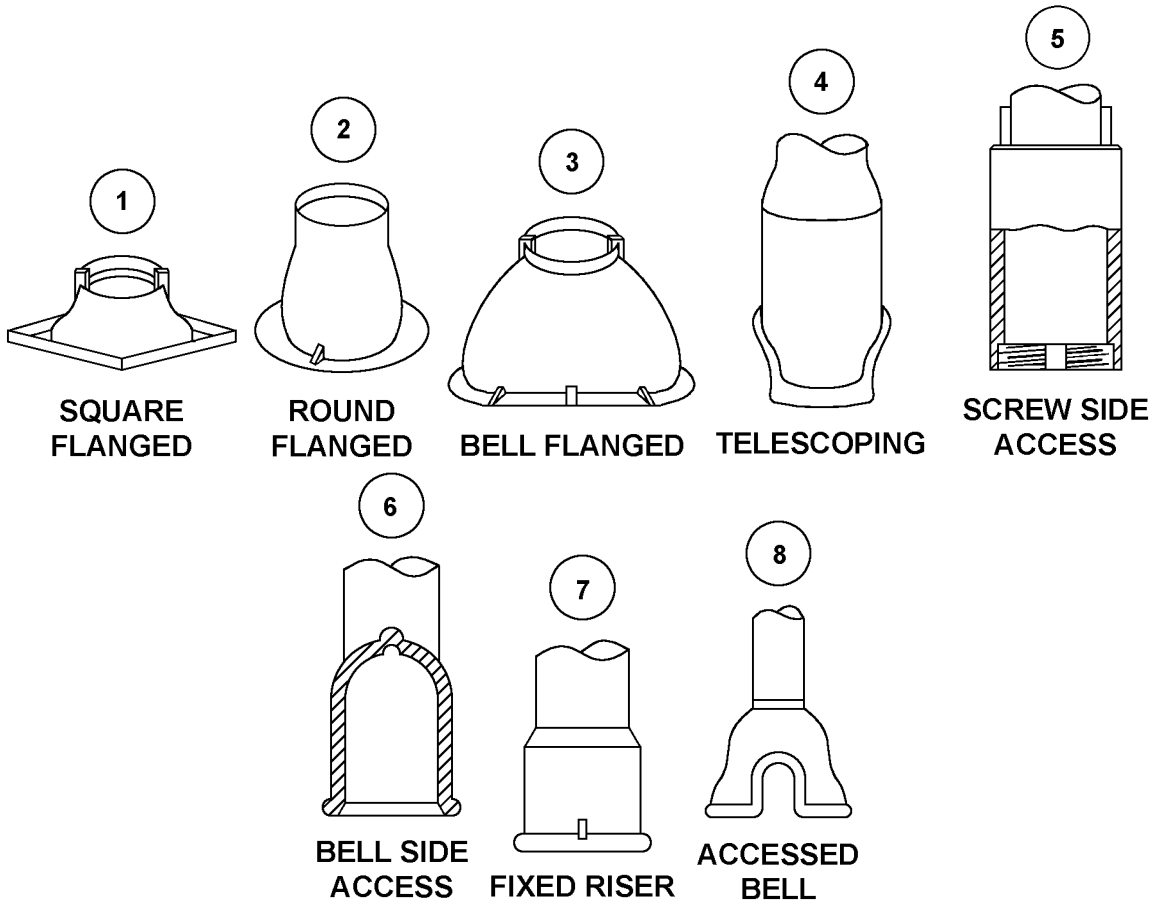
Reference Drawing Groups

REFERENCE DRAWING GROUP B 158

REFERENCE DRAWING GROUP B

SERVICE BOX BASE STYLES

(No Requirements)



Technical Data Tables

STANDARD FRACTION TO DECIMAL CONVERSION CHART	161
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APPENDIX C

STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	-----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	-----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	-----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	-----	.219	.2188				23/32	-----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	-----	.281	.2812				25/32	-----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	-----	.344	.3438				27/32	-----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	-----	.406	.4062				29/32	-----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	-----	.469	.4688				31/32	-----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000

FIIG Change List

FIIG Change list, Effective September 3, 2010

This change replaced with ISAC or and/or coding.